Geology Subject Index
Volume 29

A-type granites
Wyoming, geochemistry 6: 515-518
Abean Orogeny *see* Hercynian Orogeny
ablation, laser *see* laser ablation
abrasion 11: 971-974; 12: 1087-1090
absolute age *see also* Ar/Ar; C-14; He/He; K/Ar; Nd/Nd; Pb/Pb; Pb/Th; Rb/Sr; Sm/Nd; Th/U; U/Pb; U/Th/Pb; uranium disequilibrium
Africa, Quaternary 1: 83-86
California, Quaternary 10: 879-882
Idaho, geomorphology 7: 591-594
Montana, Quaternary 12: 1095-1098
Pakistan
plate tectonics 2: 192-193
Quaternary 3: 287
abyssal sedimentation *see* deep-sea sedimentation
Acarina
Quaternary 7: 643-646
accommodation zones
Mississippi Valley, Quaternary 5: 419-422
Nevada, tectonics 6: 475-478
sedimentary petrology 12: 1127-1130
Western Australia, folds 3: 283-286
accretionary wedges
Japan, seismicity 2: 183-186
Mediterranean Sea, geochemistry 11: 1031-1034
Washington, plate tectonics 5: 379-382
accumulation, petroleum *see* petroleum accumulation
acid rain
China, stratigraphy 9: 815-818
Acidalia Mensa 5: 427-430
acoustical methods
ocean floors 10: 959-962
Quaternary 5: 411-414
seismology 12: 1139-1142
acritarchs
Greenland, stratigraphy 4: 351-354
actinides *see* thorium; uranium
active faults
Argentina 7: 619-622
Arizona, Quaternary 11: 1035-1038
California 1: 15-18
Quaternary 9: 819-822
China, Quaternary 11: 1051-1054
Costa Rica, plate tectonics 10: 907-910
Greece, Quaternary 8: 707-710
Middle East 10: 927-930
Pacific Ocean, ocean floors 10: 959-962
Turkey, earthquakes 6: 495-498
adakites
Costa Rica, tectonophysics 2: 127-130
Mexico 6: 531-534
adaptive radiation
stratigraphy 4: 359-362
Aegean Islands *see* Greek Aegean Islands
Aegean Sea
tectonics 5: 395-398
aerosols
Archean 11: 1003-1006
Africa *see also* East Africa; Southern Africa
Africa Archean, Barberton greenstone belt 12: 1159-1160
paleomagnetism, Anti-Atlas 7: 583-586
Quaternary
Congo River 3: 195-198
Lake Magadi 6: 499-502
Lake Malawi 1: 83-86
Lake Turkana 6: 499-502
Nile River 12: 1099-1102
agglomerate
Virginia, sedimentary petrology 9: 843-846
Agnotozoic *see* Proterozoic
Ailao Shan
geochemistry 9: 863-866
Al-26
California, Quaternary 5: 447-450; 10: 879-882
Quaternary 4: 343-346
Alabama *see* Mississippi Embayment
Alaska
geochemistry 11: 1063-1064
petrology, Brooks Range 12: 1151-1154
Quaternary 9: 775-778
stratigraphy 10: 947-950
Alberta
stratigraphy 6: 523-526
Albuquerque Basin
ground water 1: 43-46
structural geology 4: 367-370
Aleutian Islands
geochemistry 11: 1063-1064
algae
diatoms
Africa 1: 83-86
Antarctic Ocean 9: 787-790
Kenya 6: 499-502
Virginia 9: 843-846
nannofossils, New Jersey 1: 55-58
algal mats 12: 1119-1122
alkenones
Pacific Ocean, Quaternary 12: 1115-1118
allostratigraphy
Norway, Quaternary 3: 199-202
alluvial deposits *see* alluvium
alluvial fans
Arizona, Quaternary 11: 1035-1038
California, Quaternary 9: 855-858
Nevada, Quaternary 9: 855-858
Taiwan, geologic hazards 9: 831-834
alluvium
Peru, Quaternary 5: 431-434
Alpine Fault
plate tectonics 8: 679-682
Alps
crust, Swiss Alps 2: 189-190
inclusions, Dora Maira Massif 1: 3-6
structural geology 1: 35-38
Alps 12: 1143-1146
Triassic, Latemar Massif 12: 1123-1126
Altyn Tagh Fault
Quaternary 11: 1051-1054
aluminum
Al-26
California 5: 447-450; 10: 879-882
Northwest Territories 4: 343-346
Nunavut 4: 343-346
France, geochemistry 5: 451-454
Amadeus Basin
Proterozoic 12: 1135-1138
Amazon Basin
stratigraphy 7: 595-598
Amazonian Shield *see* Brazilian Shield
amber mica *see* phlogopite
Ammonoidea *see also* Scaphites
China, stratigraphy 9: 815-818
Hungary, stratigraphy 11: 1047-1050
Switzerland, stratigraphy 3: 223-226
amphibole group *see* clinoamphibole
analogues, modern *see* modern analogs
analogues, natural *see* natural analogs
anastomosing streams *see* braided streams
anatexis
Scotland, petrology 4: 311-314
Anatolia
structural geology 7: 611-614
ancient ice ages
Proterozoic 12: 1135-1138; 5: 443-446
Andalusia Spain
structural geology 6: 503-506
Andes *see also* Argentina; Colombia; Peru; Puna
geomorphology 7: 579-582
stratigraphy, Eastern Cordillera 2: 159-162
structural geology 2: 135-138
tectonics 8: 723-726
andesites *see also* boninite
Japan, geochemistry 4: 323-326
Angiospermae *see also* Monocotyledoneae
Colombia, stratigraphy 2: 159-162
Anhui China
stratigraphy 12: 1119-1122
anhydrite
structural geology 5: 387-390
Antarctic ice sheet
Pliocene 1: 67-70
Quaternary 1: 71-74
Antarctic Ocean *see also* Kerguelen Plateau
Eocene, Ross Sea 10: 931-934
Pliocene 1: 67-70
Quaternary 9: 787-790
Antarctic Peninsula 10: 923-926
Quaternary 9: 787-790
Antarctica
Antarctic Peninsula 10: 923-926
Eocene, Victoria Land 10: 931-934
hydrology 3: 259-262
Pliocene, Antarctic ice sheet 1: 67-70
Quaternary 12: 1103-1106
Antarctic ice sheet 1: 71-74
Antarctic Peninsula 9: 787-790
Victoria Land 10: 935-938
tectonics, Prince Charles Mountains 5: 463-466
Anthozoa
China
stratigraphy 9: 815-818
tectonics 1: 90-91
Costa Rica, Quaternary 7: 639-642
Anti-Atlas
paleomagnetism 7: 583-586
anticlines
North Sea, energy sources 10: 915-918
antigorite
Japan, tectonophysics 4: 299-302
Antilles *see* Greater Antilles; Lesser Antilles
Antofagasta Chile *see also* Chuquicamata Chile
seismology 9: 847-850
Antofagasta earthquake 1995
Chile 9: 847-850
apatite
China, structural geology 10: 939-942
Turkey, structural geology 7: 611-614
Apectodinium
Paleocene 4: 315-318
Apennines
structural geology 1: 35-38
Appalachian Basin
pedogenesis 10: 943-946
Appalachian Phase
structural geology 4: 327-330
Appalachians
structural geology 9: 811-814
Aptian
Colombia 2: 159-162
aquifers
ground water 4: 335-338
Virginia, sedimentary petrology 9: 843-846

Ar-40/Ar-39
geochemistry 3: 275-278
Ar/Ar
Alberta, stratigraphy 6: 523-526
Arizona, Quaternary 11: 1035-1038
California, geochemistry 3: 275-278
China, faults 4: 339-342
Costa Rica, tectonophysics 2: 127-130
geochronology 5: 403-406
Greece, tectonics 5: 395-398
Iran, plate tectonics 6: 559-562
Kenya, Quaternary 6: 499-502
Nevada
structural geology 8: 719-722
tectonics 6: 475-478
New Mexico, geochemistry 3: 275-278
Peru, stratigraphy 7: 595-598
Queensland Australia, Quaternary 7: 635-638
Russian Federation, Jurassic 2: 167-170
South Australia, Quaternary 10: 899-902
Utah, metal ores 4: 331-334
Washington, geochronology 1: 51-54
Western Australia, stratigraphy 12: 1083-1086
Arabia Terra 5: 407-410
Arabian Peninsula *see* Oman
Arabian Plate
Jordan, tectonophysics 2: 171-174
Arachnida
New Mexico, Quaternary 7: 643-646
Aragon Spain
structural geology 1: 11-14
aragonite
Atlantic Ocean, Quaternary 3: 239-242
Arbuckle Mountains
stratigraphy 8: 671-674
archaeological sites
Peru, Quaternary 7: 603-606
archaeology *see also* artifacts; fossil man
Greece 8: 707-710
Peru, Quaternary 5: 431-434
Archean 11: 1003-1006
Iceland 9: 823-826
Northwest Territories 5: 423-426; 9: 827-830
Nunavut 9: 827-830
South Africa 12: 1159-1160
Vietnam 3: 219-222
Warrawoona Group 12: 1083-1086
Western Australia 3: 283-286; 8: 687-690
archeology *see* archaeology
Archosauria *see* Saurischia
arcs, island *see* island arcs
Arctic Ocean
Quaternary 4: 343-346
seismology, Mid-Arctic Ocean Ridge 12: 1139-1142
tectonophysics, Norwegian Sea 3: 203-206
Arctic region *see also* Greenland; Jan Mayen
sedimentary petrology 11: 999-1002
Arctic Sea *see* Arctic Ocean
arcuate structures
Himalayas, plate tectonics 9: 791-794
Western Australia, folds 3: 283-286
Arenigian
Newfoundland 9: 811-814
Ares Vallis 5: 427-430
Argentina *see also* Precordillera; Puna
Quaternary, Neuquen Argentina 11: 1059-1062
argon
Ar-40/Ar-39 3: 275-278
argon-argon *see* Ar/Ar
Arizona *see also* Black Mesa
Quaternary
Cochise County Arizona 5: 399-402
Mohave County Arizona 11: 1035-1038
Pima County Arizona 5: 399-402
Pinal County Arizona 5: 399-402
Arkansas *see* Mississippi Embayment; New Madrid region; Reelfoot Rift
arroyos
Arizona, Quaternary 5: 399-402
Arthropoda *see also* Trilobitomorpha
Arachnida, New Mexico 7: 643-646
Articulata *see also* Rhynchonellida
stratigraphy 2: 111-114
artifacts *see* fossil man
aseismic ridges
Costa Rica, tectonophysics 2: 127-130
ash falls
Indonesia, Quaternary 4: 347-350
Quaternary 9: 783-786
Asia *see also* Arabian Peninsula; Central Asia; Far East; Himalayas; Indian Peninsula; Middle East
geochemistry
Kamchatka Peninsula 9: 851-854
Siberia 3: 267-270
Yakutia Russian Federation 3: 267-270
geomorphology, Siwalik Range 5: 415-418
hydrogeology, Main Central Thrust 9: 803-806
hydrology
Brahmaputra River 1: 23-26
Ganges River 1: 23-26
Jurassic, Yakutia Russian Federation 2: 167-170
mineralogy, Russian Far East 6: 479-482
plate tectonics, Ladakh 2: 192-193
Quaternary 1: 63-66
Nanga Parbat 3: 287
sedimentary petrology
Lena River 11: 999-1002
Siberia 11: 999-1002
seismology, Nanga Parbat 7: 651-654
structural geology, Main Central Thrust 7: 571-574
asthenosphere
Costa Rica, tectonophysics 2: 127-130
Ethiopia, tectonophysics 6: 527-530
Mexico
petrology 6: 531-534
tectonophysics 6: 507-510
tectonophysics 4: 291-294
Asturian Orogeny
Spain, structural geology 11: 991-994
Asturias Spain *see* Asturian Massif
Atlantic Coastal Plain
Oligocene 1: 55-58
Quaternary 7: 615-618
sedimentary petrology 9: 843-846
Atlantic County New Jersey
Oligocene 1: 55-58
Atlantic Ocean *see also* North Atlantic
geochemistry, Mid-Atlantic Ridge 3: 243-246
mineralogy 4: 371-373
petrology 2: 155-158
Quaternary 5: 411-414
Celtic Sea 9: 795-798
West Atlantic 3: 239-242
sea water 6: 487-490
tectonophysics 7: 587-590
Mid-Atlantic Ridge 11: 979-982
Romanche fracture zone 11: 979-982
Atlantic Ocean Islands *see* Faeroe Islands
Atlantic-type margins *see* passive margins
Atlas Mountains *see* Moroccan Atlas Mountains
atmosphere *see also* atmospheric precipitation
Indian Ocean, Quaternary 1: 63-66
atmospheric precipitation *see also* rain
Andes, geomorphology 7: 579-582
Colombia, Quaternary 6: 519-522
geomorphology 6: 511-514
Kenya, Quaternary 6: 499-502
New York, Quaternary 9: 807-810
Australasia *see* New Zealand; Papua New Guinea
Australia *see also* Northern Territory Australia; Queensland Australia; South Australia; Western Australia
Proterozoic, Amadeus Basin 12: 1135-1138
Austria
Paleocene, Salzburg State Austria 4: 315-318
avalanches
engineering geology 2: 115-118
B-11/B-10
Mediterranean Sea, geochemistry 11: 1031-1034
back-arc basins
geochemistry 9: 851-854
bacteria
Arizona, diagenesis 1: 47-50
geochemistry 6: 535-538
Iceland, Archean 9: 823-826
Indian Ocean, geochemistry 7: 647-650
Virginia, sedimentary petrology 9: 843-846
Badlands National Park
stratigraphy 11: 1055-1058
Baffin Island
Quaternary 4: 343-346
Baja California *see* Rosario Formation
Baja California Norte Mexico
tectonophysics 5: 459-462
Baja California Sur Mexico *see* Vizcaino Peninsula
Bajocian
Pacific Ocean 8: 735-738
Baltic Sea
ocean circulation 3: 215-218
Bangladesh *see* Brahmaputra River; Ganges River
Barberton greenstone belt
Archean 12: 1159-1160
barometry, geologic *see* geologic barometry
barrier beaches
New Jersey, Quaternary 7: 615-618
barrier reefs
Coral Sea 6: 483-486
Barstow Formation
geochemistry 2: 139-142
basalts *see also* flood basalts; lava; mid-ocean ridge basalts; ocean-island basalts; olivine tholeiite; tholeiite
Alaska 12: 1151-1154
Antarctic Ocean, geochemistry 2: 147-150
Hawaii, pedogenesis 6: 563-565
Jordan, tectonophysics 2: 171-174
Mexico 6: 531-534
basculating faults *see* wrench faults
base metals *see* copper ores
basement tectonics
Norway 4: 374-376
basin analysis
Indonesia, Quaternary 7: 607-610
Norway, Quaternary 3: 199-202
Basin and Range Province *see also* Great Basin; Nevada
structural geology 8: 719-722
tectonics 6: 475-478
basins *see also* back-arc basins; fore-arc basins; foreland basins
Baltic Sea, ocean circulation 3: 215-218
Canada, stratigraphy 12: 1079-1082
geochemistry 12: 1067-1070
Germany, crust 2: 189-190
metal ores 1: 59-62
Nevada, structural geology 8: 719-722
New Mexico, structural geology 4: 367-370
North Sea, ocean circulation 3: 215-218
Norway, Quaternary 3: 199-202
Switzerland, crust 2: 189-190
batholiths
California, stratigraphy 6: 491-494
Mexico, stratigraphy 6: 491-494
Montana, tectonics 8: 723-726
Wyoming, geochemistry 6: 515-518
Bathonian
Pacific Ocean 8: 735-738
Bay of Bengal
Quaternary 1: 63-66

Be-7
Iowa, environmental geology 12: 1131-1134
Be-10
California, Quaternary 5: 447-450; 10: 879-882
Faeroe Islands, Quaternary 12: 1107-1110
Idaho, geomorphology 7: 591-594
Montana, Quaternary 12: 1095-1098
Northwest Territories, Quaternary 4: 343-346
Nunavut, Quaternary 4: 343-346
beaches *see also* barrier beaches; shorelines
Indonesia 4: 347-350
Beaumont Clay
pedogenesis 10: 943-946
bed-load *see* bedload
bedded volcano *see* stratovolcanoes
bedding
ground water 4: 335-338
bedding plane irregularities
Mexico, stratigraphy 3: 231-234
bedload
Bangladesh, hydrology 1: 23-26
California, ocean floors 11: 1019-1022
geomorphology 12: 1071-1074
Beltanelliformis
stratigraphy 12: 1119-1122
belts, greenstone *see* greenstone belts
belts, mobile *see* mobile belts
belts, volcanic *see* volcanic belts
Bengal Fan
tectonophysics 8: 715-718
Bernalillo County New Mexico
ground water 1: 43-46
structural geology 4: 367-370
beryllium
Be-7, Iowa 12: 1131-1134
Be-10
California 5: 447-450; 10: 879-882
Faeroe Islands 12: 1107-1110
Idaho 7: 591-594
Montana 12: 1095-1098
Northwest Territories 4: 343-346
Nunavut 4: 343-346
biochemical markers *see* biomarkers
bioclastic sedimentation
Antarctic Ocean, Quaternary 9: 787-790
California, Quaternary 12: 1075-1078
biodiversity
Canada, Cambrian 10: 903-906
Iceland, Archean 9: 823-826
Idaho, Invertebrata 2: 131-134
Pacific Ocean, Quaternary 7: 599-602
South Africa, stratigraphy 12: 1147-1150
stratigraphy 4: 359-362
United States, Cambrian 10: 903-906
Utah, Invertebrata 2: 131-134
bioerosion
Canada, stratigraphy 12: 1079-1082
biofilms
stratigraphy 12: 1119-1122
biogeography
Greenland, Quaternary 6: 551-554
Indonesia, Quaternary 7: 607-610
Israel, Quaternary 10: 887-890
Switzerland, Quaternary 6: 551-554
bioherms
Germany, stratigraphy 3: 271-274
stratigraphy 8: 751-754
biologic evolution *see* adaptive radiation; cladistics
biological diversity *see* biodiversity
biological evolution *see* biologic evolution
biological zones *see* biozones
biomarkers
Italy, stratigraphy 9: 799-802
biomineralization 2: 123-126; 9: 823-826
biopelite *see* black shale
biostratigraphy *see also* biozones; dinosaurs; nannofossils; paleoecology
Alberta 6: 523-526
Atlantic Ocean, energy sources 1: 94-96
China 9: 871-872; 10: 955-958
tectonics 1: 90-91
Indian Ocean, Quaternary 1: 63-66
Israel, Quaternary 10: 887-890
Kenya, Quaternary 6: 499-502
Mexico 3: 231-234
New Jersey, Quaternary 7: 615-618
New Zealand, tectonophysics 3: 279-282
Pacific Ocean 8: 735-738
Panama 3: 207-210
Switzerland 3: 223-226
West Indies, energy sources 1: 94-96
biostromes
British Columbia, stratigraphy 12: 1091-1094
biotite
Antarctic Ocean, Eocene 10: 931-934
biotite gneiss
Antarctic Ocean, continental drift 3: 235-238
bioturbation *see also* burrows
California, Quaternary 10: 879-882
biozones
Hungary, stratigraphy 11: 1047-1050
Nevada, stratigraphy 1: 92-93; 8: 671-674
Oklahoma, stratigraphy 8: 671-674
South Dakota, stratigraphy 11: 1055-1058
Bishop Tuff
geochemistry 3: 275-278
bitter spar *see* dolomite
bitumens
Greece, Quaternary 8: 707-710
bituminous shale *see* black shale
Bivalvia *see also* Solemyida; Unionidae
China
stratigraphy 9: 815-818
tectonics 1: 90-91
Mediterranean Sea, geochemistry 11: 1031-1034
Peru, Quaternary 7: 603-606
South Dakota, stratigraphy 11: 1055-1058
stratigraphy 4: 359-362
Black Sea 6: 555-558
black shale
stratigraphy 5: 469-471
black smokers
Pacific Ocean, ocean floors 10: 959-962
Blake Nose *see* ODP Site 1049
Blake Plateau *see* Blake Nose
blind faults
New Mexico 4: 367-370
bloating shale *see* shale
block clay *see* melange
block structures *see also* horsts
Basin and Range Province, neotectonics 1: 19-22
China
geomorphology 10: 951-954
structural geology 2: 119-122
Costa Rica, Quaternary 2: 151-154
Germany, structural geology 5: 387-390
Great Basin, neotectonics 1: 19-22
Netherlands, structural geology 5: 387-390
Newfoundland, structural geology 9: 811-814
Western Australia, folds 3: 283-286
blueschist
Greece, tectonics 5: 395-398
blueschist facies
China
metamorphism 7: 663-664
tectonics 1: 90-91
body waves *see* P-waves; S-waves; SKS-waves
Bogota Basin
Quaternary 6: 519-522
bolides
China, stratigraphy 9: 815-818
Bolivia
paleomagnetism 7: 583-586
boninite
Yukon Territory, geochemistry 8: 731-734
Book Cliffs
stratigraphy 2: 187-188
Borborema
Proterozoic 4: 319-322
boron
B-11/B-10, Mediterranean Sea 11: 1031-1034
bottom features *see* black smokers; furrows; mid-ocean ridges
bottom load *see* bedload
boudinage
Manitoba, structural geology 9: 767-770
Boulder Batholith
tectonics 8: 723-726
boulders
Montana, Quaternary 12: 1095-1098
Bowman County North Dakota
stratigraphy 1: 39-42
Brachiopoda
Articulata, stratigraphy 2: 111-114
China
stratigraphy 9: 815-818
tectonics 1: 90-91
Rhynchonellida, Germany 5: 471
Rhynchonellidae, Germany 3: 271-274
Brae Formation
energy sources 10: 915-918
Brahmaputra River
hydrology 1: 23-26
braided streams
Antarctica, hydrology 3: 259-262
Brasiliano Orogeny
Brazil, Proterozoic 4: 319-322
braunite
South Africa, manganese ores 9: 835-838
Brazil
Proterozoic 4: 319-322
Brazilian Orogeny *see* Brasiliano Orogeny
Brazilian Shield
Proterozoic 4: 319-322
break (knickpoint) *see* knickpoints
breccia
Antarctica, Quaternary 10: 935-938
Atlantic Ocean, energy sources 1: 94-96
Spain, structural geology 6: 503-506
West Indies, energy sources 1: 94-96
brines 1: 59-62
Argentina, Quaternary 11: 1059-1062
Pyrenees, Mesozoic 3: 251-254
Utah 4: 331-334
brittle deformation
Red Sea, tectonophysics 10: 895-898
sea-floor spreading 11: 1023-1026
Bronkhorstfontein Deposit
manganese ores 9: 835-838
Bryozoa
China, stratigraphy 9: 815-818
bubbles
petroleum 10: 919-922
Bunter
Spain 1: 11-14
Burin Peninsula
geologic hazards 10: 967
burrows
California 10: 923-926
Nevada, Quaternary 9: 855-858
Burubaital Formation
sedimentary petrology 8: 755-758
Butte County California
Quaternary 5: 447-450
Byng Formation
stratigraphy 12: 1091-1094

C-13/C-12
Alberta, stratigraphy 6: 523-526
Archean 11: 1003-1006
Australia, Proterozoic 12: 1135-1138
California
geochemistry 2: 139-142
Proterozoic 12: 1135-1138
sedimentary petrology 12: 1111-1114
China, stratigraphy 9: 871-872
Colombia, stratigraphy 2: 159-162
Germany, stratigraphy 5: 469-471
Greenland, stratigraphy 4: 351-354
Hungary, stratigraphy 11: 1047-1050
Iran, Cambrian 11: 995-998
Italy, stratigraphy 9: 799-802
Mediterranean Sea
geochemistry 11: 1031-1034
Quaternary 12: 1099-1102
Namibia, Proterozoic 12: 1135-1138
Nevada, stratigraphy 1: 92-93; 8: 671-674
New York, stratigraphy 5: 469-471
Oklahoma, stratigraphy 8: 671-674
Proterozoic 5: 443-446
Switzerland, stratigraphy 3: 223-226
C-14
China, Quaternary 11: 1051-1054
Costa Rica, Quaternary 2: 151-154
Faeroe Islands, Quaternary 12: 1107-1110
New Jersey, Quaternary 7: 615-618
C-14/C-12
Faeroe Islands, Quaternary 12: 1107-1110
calcite
California
geochemistry 2: 139-142
sedimentary petrology 12: 1111-1114
diagenesis 9: 763-766
Oman, Quaternary 7: 623-626
Virginia 11: 1027-1030
Yukon Territory 11: 1027-1030
calcium
California, geochemistry 2: 139-142
China, stratigraphy 9: 815-818
Hawaii, pedogenesis 6: 563-565
calcium carbonate
Pacific Ocean, Quaternary 12: 1115-1118
Caledonides
geochemistry 6: 543-546
orogeny 4: 374-376
California *see also* Bishop Tuff; California Current; Peninsular Ranges; Santa Barbara Basin; Sierra Nevada
deformation
Garlock Fault 11: 975-978
Los Angeles County California 11: 975-978
San Bernardino County California 11: 975-978
geochemistry, Barstow California 2: 139-142
geomorphology, Yosemite National Park 8: 759-760
magmas, Inyo Mountains 12: 1157-1158
ocean floors 11: 1019-1022
Proterozoic, Death Valley 12: 1135-1138
Quaternary 12: 1115-1118
Butte County California 5: 447-450
Death Valley 9: 855-858
Inyo County California 9: 819-822
San Bernardino County California 9: 855-858
Santa Cruz California 10: 879-882
sedimentary petrology 12: 1111-1114
structural geology, Mono County California 4: 307-310
tectonics 1: 15-18
tectonophysics, Mount Shasta 7: 631-634
California Current
California, Quaternary 12: 1075-1078
Cambrian 9: 763-766
Canada 10: 903-906
China 5: 471; 9: 871-872
Iran 11: 995-998
Kazakhstan 8: 755-758
Mount Simon Sandstone, geochemistry 12: 1067-1070
Newfoundland 9: 811-814
United States 10: 903-906
Campania Italy *see* Vesuvius
Campeche Bank
energy sources 1: 94-96
Canada *see also* Eastern Canada; Palliser Formation; Western Canada
Cambrian 10: 903-906
mineralogy, Canadian Rocky Mountains 11: 1027-1030
Quaternary, Baffin Island 4: 343-346
stratigraphy, Canadian Rocky Mountains 12: 1091-1094
Canadian Rocky Mountains
mineralogy 11: 1027-1030
stratigraphy 12: 1091-1094
Canadian Shield
geochemistry, Rae Province 9: 827-830
structural geology, Superior Province 9: 767-770
tectonophysics, Slave Province 5: 423-426
Canning Basin
stratigraphy 12: 1155-1156
Cantabrian Mountains
paleomagnetism 7: 583-586
structural geology 11: 991-994
Cape May County New Jersey
Oligocene 1: 55-58
Quaternary 7: 615-618
Cape Province region
stratigraphy 12: 1147-1150
carbargilite *see* coal
carbon
C-13/C-12
Alberta 6: 523-526
Archean 11: 1003-1006
Australia 12: 1135-1138
California 2: 139-142; 12: 1111-1114; 12: 1135-1138
China 9: 871-872
Colombia 2: 159-162
Germany 5: 469-471
Greenland 4: 351-354
Hungary 11: 1047-1050
Iran 11: 995-998
Italy 9: 799-802
Mediterranean Sea 11: 1031-1034; 12: 1099-1102
Namibia 12: 1135-1138
Nevada 1: 92-93; 8: 671-674
New York 5: 469-471
Oklahoma 8: 671-674
Proterozoic 5: 443-446
Switzerland 3: 223-226
C-14
China 11: 1051-1054
Costa Rica 2: 151-154
Faeroe Islands 12: 1107-1110
New Jersey 7: 615-618
organic carbon, Pacific Ocean 12: 1115-1118
carbon cycle
Australia, Proterozoic 12: 1135-1138
California, Proterozoic 12: 1135-1138
Greenland, stratigraphy 4: 351-354
Hungary, stratigraphy 11: 1047-1050
Namibia, Proterozoic 12: 1135-1138
Switzerland, stratigraphy 3: 223-226
carbon dioxide
Archean 11: 1003-1006
Colombia, stratigraphy 2: 159-162
energy sources 9: 867-870
Guatemala, petrology 10: 911-914
Gulf Coastal Plain, Eocene 11: 983-986
Nepal, hydrogeology 9: 803-806
carbonate platforms
Canada, stratigraphy 12: 1079-1082
diagenesis 9: 763-766
Italy, Triassic 12: 1123-1126
sedimentary petrology 12: 1127-1130
carbonate rocks *see also* limestone; travertine
Australia, Proterozoic 12: 1135-1138
California, Proterozoic 12: 1135-1138
France, ground water 4: 335-338
Germany, stratigraphy 5: 471
Namibia, Proterozoic 12: 1135-1138
Nevada, stratigraphy 8: 671-674
Newfoundland, structural geology 9: 811-814
Oklahoma, stratigraphy 8: 671-674
Proterozoic 5: 443-446
Switzerland, ground water 4: 335-338
carbonates *see also* aragonite; calcite; dolomite; magnesite; siderite
Coral Sea 6: 483-486
Italy, petrology 11: 1043-1046
Carboniferous *see also* Mississippian
Asturian Orogeny, Spain 11: 991-994
Dinantian
Germany 5: 471
Nevada 1: 92-93
Namurian 2: 111-114
Tournaisian 2: 111-114
Visean 2: 111-114
Germany 3: 271-274
carbonization *see* coalification
Cariaco Basin
Quaternary 1: 71-74
Caribbean Plate
plate tectonics 1: 75-78
Caribbean region *see also* West Indies
Quaternary 7: 639-642
tectonophysics 2: 127-130
Caribbean Sea *see also* ODP Site 999
Quaternary 7: 639-642
Cariaco Basin 1: 71-74
cartography 5: 427-430
Quaternary 7: 607-610
structural geology 4: 367-370
Cascade Range *see also* Mount Rainier; Mount Shasta
geochronology 1: 51-54
Cascadia subduction zone
plate tectonics 5: 379-382
Caspian Basin
plate tectonics 6: 559-562
Castlegate Sandstone 2: 187-188
catchments *see* drainage basins
cathodoluminescence 10: 915-918
caves *see also* stalagmites
ground water 4: 335-338
Cavinh Complex
tectonics 3: 219-222
cellular automata
faults 9: 839-842
petroleum 10: 919-922
Celtic Sea
Quaternary 9: 795-798
Cenomanian
Alberta 6: 523-526
Cenozoic *see also* Quaternary; Tertiary
Great Plains 6: 547-550
Idaho 7: 591-594
Indian Ocean 8: 715-718
Japan 1: 87-89
Paleolithic, Israel 10: 887-890
Peru 7: 595-598
Rocky Mountains 6: 547-550
Siwalik System 1: 31-34
tectonics 11: 1007-1010
Cephalopoda *see* Tetrabranchiata

cesium
Cs-137
Iowa 12: 1131-1134
New Jersey 7: 615-618
Chaffee County Colorado
Proterozoic 11: 1015-1018
chain silicates *see* amphibole group; pyroxene group
chalybite *see* siderite
chambers, magma *see* magma chambers
channelization
hydrology 10: 875-878
channels *see also* braided streams
Great Plains, geomorphology 6: 547-550
Mexico, stratigraphy 3: 231-234
Nepal, geomorphology 5: 415-418
Rocky Mountains, geomorphology 6: 547-550
South Africa, stratigraphy 12: 1147-1150
chaos 2: 103-106
characteristic remanent magnetization
Alaska, stratigraphy 10: 947-950
Charniidae
stratigraphy 12: 1119-1122
chartology *see* cartography
Chekiang China *see* Zhejiang China
Chelan County Washington
geochronology 1: 51-54
Chelicerata *see* Arachnida
chemical weathering 6: 511-514
Nepal, hydrogeology 9: 803-806
chemically precipitated rocks *see* chert; evaporites; siliceous sinter; tufa
chemostratigraphy
Atlantic Ocean 4: 303-306
China 5: 471; 9: 871-872
Greenland 4: 351-354
Quaternary 1: 71-74
Indian Ocean, Quaternary 1: 63-66
Nevada 8: 671-674
Oklahoma 8: 671-674
Panama, Neogene 3: 207-210
chemosynthesis
Germany, stratigraphy 3: 271-274
chert
Kazakhstan 8: 755-758
Chi-Chi earthquake 1999
geologic hazards 9: 831-834
Chicxulub Crater
energy sources 1: 94-96
stratigraphy 3: 231-234; 11: 1055-1058
Chile
metal ores 5: 467-468
Chuquicamata Chile 5: 383-386
seismology, Antofagasta Chile 9: 847-850
Chile earthquake 1995 *see* Antofagasta earthquake 1995
China *see also* Anhui China; Inner Mongolia China; Jiangsu China; Ningxia China; Shaanxi China; Shandong China; Xinjiang China; Xizang China; Yunnan China; Zhejiang China
geochemistry, Yangtze Platform 9: 863-866
geomorphology 10: 951-954
Neogene, Qinghai-Xizang Plateau 1: 31-34
Quaternary, Altyn Tagh Fault 11: 1051-1054
stratigraphy, Yangtze Platform 5: 471; 9: 871-872
structural geology
Qilian Mountains 10: 939-942
Qinghai-Xizang Plateau 10: 939-942
Qinling Mountains 2: 119-122
South China Block 2: 119-122
Sulu Terrane 2: 119-122
chloride ion
Indian Ocean, geochemistry 7: 647-650
chlorides *see also* sylvite
Italy, petrology 11: 1043-1046
chlorine
chloride ion, Indian Ocean 7: 647-650
chlorite
Baltic Sea, ocean circulation 3: 215-218
North Sea, ocean circulation 3: 215-218
Chordata *see* Vertebrata
chorology *see* biogeography
Choromytilus chorus
Quaternary 7: 603-606
Christopher Island Formation
geochemistry 9: 827-830
chrysotile
sea-floor spreading 11: 1023-1026
Chuquicamata Chile
metal ores 5: 383-386
Churchill Province *see* Rae Province
Churia Group *see* Siwalik System
Cincinnati Ohio
hydrology 10: 875-878
cladistics
Invertebrata 2: 131-134
Clarita Formation
stratigraphy 8: 671-674
Clark County Nevada
Quaternary 9: 855-858
clastic dikes
South Dakota, stratigraphy 11: 1055-1058
clastic rocks *see also* black shale; conglomerate; marl; mudstone; porcellanite; radiolarite; red beds; sandstone; shale; volcaniclastics
Atlantic Ocean, energy sources 1: 94-96
Nepal, tectonics 11: 1007-1010
Spain, structural geology 6: 503-506
West Indies, energy sources 1: 94-96
clastic sediments *see also* alluvium; boulders; clay; diamicton; mud; ooze; quartz sand; sand; till; turbidite 3: 247-250
China, Quaternary 11: 1051-1054
clathrates
energy sources 9: 867-870
clay
New Mexico, ground water 1: 43-46
clay mineralogy *see also* clay minerals
ocean circulation 3: 215-218
clay minerals *see also* kaolinite
China, stratigraphy 9: 815-818
Japan, seismicity 2: 183-186
cliff of displacement *see* fault scarps
climate change *see also* Dansgaard-Oeschger cycles; global warming; greenhouse effect
Africa, Quaternary 1: 83-86; 3: 195-198
Antarctic Ocean
Eocene 10: 931-934
Quaternary 9: 787-790
Arizona, Quaternary 5: 399-402
Atlantic Ocean, Quaternary 3: 239-242
California, Quaternary 5: 447-450; 12: 1075-1078
Colombia, Quaternary 6: 519-522
Faeroe Islands, Quaternary 12: 1107-1110
geomorphology 8: 683-686; 12: 1071-1074
Greenland, Quaternary 1: 71-74; 6: 551-554
Gulf Coastal Plain, Eocene 11: 983-986
Italy, stratigraphy 9: 799-802
Manitoba, Quaternary 8: 743-746
Mediterranean Sea, Quaternary 12: 1099-1102
New York, Quaternary 9: 807-810
Peru, Quaternary 5: 431-434; 7: 603-606
Quaternary 9: 783-786
stratigraphy 8: 751-754
Switzerland, Quaternary 6: 551-554
climatic orbital forcing *see* orbital forcing
Clinton County Iowa
hydrology 10: 875-878
Cloudina
stratigraphy 12: 1091-1094
CO_2 *see* carbon dioxide
coalification
Arizona, diagenesis 1: 47-50
coastal features *see* shore features
coastal sedimentation
California 11: 1019-1022
Indonesia, Quaternary 4: 347-350
Pacific Ocean, hydrology 7: 659-662
coastlines *see* shorelines
Cochise County Arizona
Quaternary 5: 399-402
Cochrane Formation
stratigraphy 8: 671-674
Cocos Plate
Costa Rica
plate tectonics 10: 907-910
Quaternary 2: 151-154
tectonophysics 2: 127-130
Mexico, tectonophysics 6: 507-510
Coelenterata
Anthozoa
China 1: 90-91; 9: 815-818
Costa Rica 7: 639-642
Stromatoporoidea, China 10: 955-958
coesite
Pakistan, petrology 5: 435-438
cold seeps
California, sedimentary petrology 12: 1111-1114
collapse structures
Argentina, Quaternary 11: 1059-1062
Ontario, tectonics 8: 747-750
Colombia *see also* Eastern Cordillera
Quaternary 6: 519-522
Colorado
environmental geology 3: 255-258
Proterozoic 11: 1015-1018
structural geology 8: 739-742
Colorado mineral belt
structural geology 8: 739-742
Colorado River
Quaternary 11: 1035-1038
columbium *see* niobium
Commonwealth of Independent States *see* Kazakhstan; Russian Federation
compressional waves *see* P-waves
computer programs
Louisiana 10: 883-886
concretions
California 12: 1111-1114
Gulf Coastal Plain, pedogenesis 10: 943-946
conglomerate
Antarctic Ocean, continental drift 3: 235-238
China, stratigraphy 10: 955-958
Spain, structural geology 1: 11-14
Congo River
Quaternary 3: 195-198
Conodonta
China, stratigraphy 10: 955-958
Greenland, stratigraphy 4: 351-354
Hungary, stratigraphy 11: 1047-1050
Kazakhstan, sedimentary petrology 8: 755-758
Nevada, stratigraphy 1: 92-93; 8: 671-674
Oklahoma, stratigraphy 8: 671-674
Palmatolepis, Western Australia 12: 1155-1156
contact metamorphism
Northern Territory Australia, Precambrian 10: 963-966
Scotland 4: 311-314
Western Australia, Precambrian 10: 963-966
continental crust
Andes, structural geology 2: 135-138
Antarctic Ocean, geochemistry 2: 147-150
Brazil, Proterozoic 4: 319-322
Chile 9: 847-850
China 7: 575-578
metamorphism 7: 663-664
Colorado, Proterozoic 11: 1015-1018
Ethiopia 6: 527-530
Himalayas, structural geology 2: 135-138
Ireland, geochemistry 6: 543-546
Japan, geochemistry 4: 323-326

Middle East, structural geology 10: 927-930
Mississippi Valley, Quaternary 2: 175-178
Nevada, structural geology 8: 719-722
Northwest Territories 5: 423-426
Pakistan, petrology 5: 435-438
Vietnam
structural geology 3: 211-214
tectonics 3: 219-222
Western Australia, stratigraphy 12: 1083-1086
Wyoming, geochemistry 6: 515-518
Yukon Territory, geochemistry 8: 731-734
continental drift *see* Gondwana; Laurentia
Atlantic Ocean 3: 243-246
China
faults 4: 339-342
geochemistry 9: 863-866
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
Red Sea, tectonophysics 10: 895-898
Russian Federation, geochemistry 3: 267-270
continental margin
California, tectonics 1: 15-18
Costa Rica, plate tectonics 10: 907-910
Ireland, tectonophysics 7: 587-590
Mexico, stratigraphy 3: 231-234
New Zealand, tectonophysics 3: 279-282
Newfoundland, structural geology 9: 811-814
Pacific Ocean, tectonophysics 3: 203-206
Pakistan, plate tectonics 2: 192-193
Washington, plate tectonics 5: 379-382
Yukon Territory, geochemistry 8: 731-734
continental margin sedimentation
California 11: 1019-1022
Quaternary 12: 1075-1078
France, Quaternary 11: 1011-1014
Louisiana 10: 883-886
continental seas *see* epicontinental seas
Antarctic Ocean, Pliocene 1: 67-70
New Jersey, Quaternary 5: 411-414
continental slope *see also* continental margin sedimentation
Louisiana 2: 107-110
New Jersey, mineralogy 4: 371-373
continental terrace *see* continental shelf
continental-type crust *see* continental crust
Copahue
Quaternary 11: 1059-1062
copper ores *see* porphyry copper
Coral Sea
Great Barrier Reef 6: 483-486
corals *see* Anthozoa
cordierite
Scotland, petrology 4: 311-314
Cordillera Oriental *see* Eastern Cordillera
Cordilleran Geosyncline
Alaska, petrology 12: 1151-1154
California, structural geology 4: 307-310
core complexes *see* metamorphic core complexes
coseismic processes
Japan, seismicity 2: 183-186
Taiwan, geologic hazards 9: 831-834
Costa Rica
plate tectonics 10: 907-910
Quaternary 7: 639-642
Nicoya Peninsula 2: 151-154
tectonophysics 2: 127-130
Cottian Alps *see* Dora Maira Massif
County Cork Ireland *see* Cork Ireland
Crab Basin
ocean floors 10: 959-962
crater lakes
Argentina, Quaternary 11: 1059-1062
cratering
Spain, structural geology 1: 11-14
Cretaceous 4: 295-298; 6: 565-567
Alaska 10: 947-950
Aptian, Colombia 2: 159-162
California 4: 307-310
Castlegate Sandstone 2: 187-188
Cenomanian, Alberta 6: 523-526
China 8: 711-714
Dakota Formation 4: 363-366
Elkhorn Mountains Volcanics, tectonics 8: 723-726
Fox Hills Formation 11: 1055-1058
France 5: 451-454
Hell Creek Formation 1: 39-42
K-T boundary
Atlantic Ocean 1: 94-96; 4: 303-306
Mexico 3: 231-234; 10: 891-894
North Dakota 1: 39-42
South Dakota 11: 1055-1058
West Indies 1: 94-96
Maestrichtian
Atlantic Ocean 1: 94-96
West Indies 1: 94-96
New Zealand 3: 279-282
Rosario Formation 6: 491-494
Turonian, Alberta 6: 523-526
Washington 1: 51-54
Cretaceous-Tertiary boundary *see* K-T boundary
Crete
tectonics 5: 395-398
Crinoidea
Canada, stratigraphy 12: 1079-1082
Idaho 2: 131-134
Utah 2: 131-134
crust *see also* geothermal gradient; heat flow
Alaska, Quaternary 9: 775-778
California, tectonics 1: 15-18
continental crust
Andes 2: 135-138
Antarctic Ocean 2: 147-150
Brazil 4: 319-322
Chile 9: 847-850
China 7: 575-578; 7: 663-664
Colorado 11: 1015-1018
Ethiopia 6: 527-530
Himalayas 2: 135-138
Ireland 6: 543-546
Japan 4: 323-326
Middle East 10: 927-930
Mississippi Valley 2: 175-178
Nevada 8: 719-722
Northwest Territories 5: 423-426
Pakistan 5: 435-438
Vietnam 3: 211-214; 3: 219-222
Western Australia 12: 1083-1086
Wyoming 6: 515-518
Yukon Territory 8: 731-734
Germany 2: 189-190
lower crust
China 1: 90-91; 7: 663-664
New Zealand 8: 679-682
middle crust, structural geology 8: 727-730
oceanic crust
Antarctic Ocean 3: 235-238
New Zealand 3: 279-282
Pacific Ocean 3: 203-206; 8: 691-694; 8: 735-738
Switzerland 2: 189-190
crustal shortening
Andes
geomorphology 7: 579-582
Himalayas, structural geology 2: 135-138
Western Australia, folds 3: 283-286
crustal thickening
Andes, geomorphology 7: 579-582
Pakistan, plate tectonics 2: 192-193
crustal thinning
China, geochemistry 9: 863-866
cryptomelane
Queensland Australia, Quaternary 7: 635-638
Utah, metal ores 4: 331-334
crystal chemistry *see* crystal zoning
crystal dislocations 11: 1027-1030
crystal form
Kazakhstan, oxides 3: 263-266
crystal fractionation
China, geochemistry 9: 863-866
crystal growth *see also* crystal form
fractures 1: 79-82
Germany, silicates 5: 391-394
crystal zoning
Russian Federation, mineralogy 6: 479-482
crystalline rocks
crust 2: 189-190
Cs-137
Iowa, environmental geology 12: 1131-1134
New Jersey, Quaternary 7: 615-618
Cuba
energy sources 1: 94-96
cube spar *see* anhydrite
Cucullus
stratigraphy 12: 1119-1122
currents, ocean *see* ocean currents
currents, turbidity *see* turbidity currents
cyanobacteria *see also* Renalcis
diagenesis 9: 763-766
Iceland, Archean 9: 823-826
Cyclades
tectonics 5: 395-398
cyclostratigraphy
Alberta 6: 523-526
Italy, Triassic 12: 1123-1126
D/H
Antarctic Ocean, Eocene 10: 931-934
Colombia, Quaternary 6: 519-522
Italy, stratigraphy 9: 799-802
Dahai Member
stratigraphy 9: 871-872
Daibu Member
stratigraphy 9: 871-872
Dakota Formation 4: 363-366
Dale Canyon Formation
stratigraphy 1: 92-93
Dansgaard-Oeschger cycles
Indian Ocean, Quaternary 1: 63-66
dating, fission-track *see* fission-track dating
Dead Sea Rift
tectonophysics 2: 171-174
Death Valley
Proterozoic 12: 1135-1138
Quaternary 9: 855-858
debris flows
Washington, geologic hazards 9: 779-782
decollement
California, tectonics 1: 15-18
Costa Rica, plate tectonics 10: 907-910
Ireland, tectonophysics 7: 587-590
Nevada, faults 5: 439-442
Norway, orogeny 4: 374-376
decompression
Guatemala, petrology 10: 911-914
decoupling 5: 469-471
Deep Sea Drilling Project *see also* IPOD; Leg 22
Pliocene 1: 67-70
deep seismic sounding
Pakistan, seismology 7: 651-654
deep-sea sedimentation
France, Quaternary 11: 1011-1014
Deer Lodge County Montana
tectonics 8: 723-726
deforestation
geomorphology 8: 683-686
deformation *see also* boudinage; elastic waves; foliation; fractures; lineation; planar deformation features; shock waves; tectonite 8: 727-730
brittle deformation
Red Sea 10: 895-898

sea-floor spreading 11: 1023-1026
California 11: 975-978
China 2: 119-122
Colorado 8: 739-742
ductile deformation
Red Sea 10: 895-898
Vietnam 3: 211-214
Germany 5: 387-390
Ireland, Quaternary 9: 795-798
Netherlands 5: 387-390
Pacific Ocean, plate tectonics 8: 691-694
Virginia, mineralogy 11: 1027-1030
Yukon Territory, mineralogy 11: 1027-1030
deglaciation
Antarctic Ocean, Quaternary 9: 787-790
Antarctica, Quaternary 12: 1103-1106
California 10: 923-926
Mississippi Valley, Quaternary 2: 175-178
Montana, Quaternary 12: 1095-1098
New Jersey, Quaternary 5: 411-414
delamination
Western Australia, stratigraphy 12: 1083-1086
deltaic sedimentation
shore features 9: 771-774
deltas
Louisiana 10: 883-886
dendrochronology *see* tree rings
denudation 5: 407-410
Idaho, geomorphology 7: 591-594
desert pavement
Quaternary 9: 855-858
desert varnish *see* rock varnish
deserts *see also* rock varnish
South Australia 10: 899-902
desiccation
Italy, stratigraphy 9: 799-802
Manitoba, Quaternary 8: 743-746
detachment *see* decollement
detachment faults
China 2: 119-122
Greece 5: 395-398
Ireland, tectonophysics 7: 587-590
Turkey 7: 611-614
detrital fan *see* alluvial fans
detrital sedimentation
Washington, geomorphology 11: 971-974
Devonian
Emsian 7: 583-586
Famennian
Canada 12: 1079-1082
Germany 5: 469-471
New York 5: 469-471
Western Australia 12: 1155-1156
Frasnian
Germany 5: 469-471
New York 5: 469-471
Western Australia 12: 1155-1156
Norway 4: 374-376
Palliser Formation 12: 1079-1082
Russian Federation 3: 267-270
Scotland 4: 311-314
dextral faults *see* right-lateral faults
diachronism
Brazil, Proterozoic 4: 319-322
North Dakota, stratigraphy 1: 39-42
diagenesis *see also* coalification; weathering 9: 763-766
California 10: 923-926
Coral Sea 6: 483-486
energy sources 9: 867-870
geochemistry 12: 1067-1070
Japan, seismicity 2: 183-186
North Sea, energy sources 10: 915-918
Utah, metal ores 4: 331-334
diamicton
Antarctic Ocean, Quaternary 9: 787-790
Ireland, Quaternary 9: 795-798
diamond
Germany 5: 391-394
Kazakhstan 3: 263-266
diapiric fold *see* diapirs
diapirism
Germany, structural geology 5: 387-390
Netherlands, structural geology 5: 387-390
structural geology 8: 727-730
Diapsida *see* Archosauria
diatoms
Africa, Quaternary 1: 83-86
Antarctic Ocean, Quaternary 9: 787-790
Kenya, Quaternary 6: 499-502
Virginia, sedimentary petrology 9: 843-846
diatremes
Antarctica, Quaternary 10: 935-938
Dicynodontia *see* Lystrosaurus
digital terrain models
Queensland Australia, Quaternary 7: 635-638
Taiwan, geologic hazards 9: 831-834
Turkey, earthquakes 6: 495-498
dike swarms
China, faults 4: 339-342
Colorado, environmental geology 3: 255-258
Ethiopia, tectonophysics 6: 527-530
France, geochemistry 5: 451-454
Hawaii 2: 163-166
Japan, environmental geology 3: 255-258
Jordan, tectonophysics 2: 171-174
Ontario, tectonics 8: 747-750
structural geology 8: 727-730
dilatational wave *see* P-waves
Dinantian *see also* Tournaisian; Visean
Germany 5: 471
Nevada 1: 92-93
Dinoflagellata
Africa, Quaternary 3: 195-198
Paleocene 4: 315-318
dinosaurs *see also* Saurischia
North Dakota, stratigraphy 1: 39-42
displacement theory *see* continental drift
disposal, waste *see* waste disposal
dolomite
Hawaii, pedogenesis 6: 563-565
Dolomites *see* Latemar Massif
Donax obesulus
Quaternary 7: 603-606
Doushantuo Formation 12: 1119-1122
drainage basins
geomorphology 6: 511-514
hydrology 10: 875-878
Pacific Ocean, hydrology 7: 659-662
drainage patterns
Antarctica, hydrology 3: 259-262
dripstone (speleothems) *see* speleothems
dry delta *see* alluvial fans
DSDP *see* Deep Sea Drilling Project
DSDP Site 215
tectonophysics 8: 715-718
DSDP Site 218
tectonophysics 8: 715-718
DSDP Site 593
Quaternary 7: 599-602
DSDP Site 594
Quaternary 7: 599-602
DSDP Site 595
tectonophysics 3: 279-282
DSDP Site 596
tectonophysics 3: 279-282
DSDP Site 612
mineralogy 4: 371-373
DSS *see* deep seismic sounding
ductile deformation
Red Sea, tectonophysics 10: 895-898
Vietnam 3: 211-214
dunite
sea-floor spreading 11: 1023-1026
Dunkard Group
pedogenesis 10: 943-946
Dutch East Indies *see* Indonesia
dykes *see* dikes
Earth-Moon couple
South Africa, Archean 12: 1159-1160
earthquake prediction
California, deformation 11: 975-978
China, Quaternary 11: 1051-1054
earthquake sea wave *see* tsunamis
earthquakes *see also* geologic hazards; ground motion; New Madrid region; paleoseismicity; slope stability
Antofagasta earthquake 1995, Chile 9: 847-850
faults 5: 455-458
intermediate-focus earthquakes, Japan 4: 299-302
microearthquakes, Pakistan 7: 651-654
Middle East, structural geology 10: 927-930
Nankaido earthquake 1946, Japan 2: 183-186
Spain, structural geology 6: 503-506
Turkey 6: 495-498
volcanic earthquakes, Arctic Ocean 12: 1139-1142
East Africa *see* Ethiopia; Lake Malawi; Lake Turkana
East Mediterranean *see* Aegean Sea; Black Sea; Ionian Sea
East Pacific *see* Cocos Ridge; East Pacific Rise; Galapagos Rift; Northeast Pacific; Southeast Pacific
East Pacific Ocean Islands
tectonophysics, Easter Island 8: 695-698
East Pacific Rise
petrology 6: 531-534
Easter Island
tectonophysics 8: 695-698
Easter Island Cordillera *see* East Pacific Rise
Eastern Alps *see* Dolomites
Eastern Canada *see* Baffin Island; Newfoundland; Ontario
Eastern Cordillera
stratigraphy 2: 159-162
Echinodermata
Crinoidea 2: 131-134; 12: 1079-1082
eclogite
China, structural geology 2: 119-122
Pakistan 5: 435-438
tectonophysics 8: 667-670
Western Australia, stratigraphy 12: 1083-1086
eclogite facies
Pakistan, plate tectonics 2: 192-193
ecology *see* riparian environment
economic geology *see* base metals; bitumens; brines; coal; copper ores; glass materials; iron ores; lead-zinc deposits; manganese ores; metal ores; molybdenum ores; oil and gas fields; peat; petroleum; potash; shale
Ectoprocta *see* Bryozoa
Eddy County New Mexico
Quaternary 7: 643-646
Edeowie Glass
Quaternary 10: 899-902
Ediacaran
British Columbia 12: 1091-1094
China 12: 1119-1122
Iran 11: 995-998
Russian Federation 12: 1119-1122
Eemian
Kenya 6: 499-502
Eerduosi Basin *see* Ordos Basin
effusion
Antarctica, Quaternary 10: 935-938
El Nino
California, Quaternary 12: 1075-1078
Pacific Ocean, hydrology 7: 659-662
Peru, Quaternary 5: 431-434; 7: 603-606

Elan Bank
continental drift 3: 235-238
geochemistry 2: 147-150
elastic waves *see also* seismic waves
New Zealand, plate tectonics 8: 679-682
Elburz
Cambrian 11: 995-998
plate tectonics 6: 559-562
electrical properties
Northwest Territories, tectonophysics 5: 423-426
electromagnetic methods
tectonophysics 5: 423-426
electromagnetic radiation *see* ultraviolet radiation
Elkhorn Mountains Volcanics
tectonics 8: 723-726
Ellesmerian Orogeny
Canada 12: 1079-1082
Emsian 7: 583-586
enamel
China, Quaternary 1: 27-30
encrustations
Virginia, sedimentary petrology 9: 843-846
Endeavour Ridge
ocean floors 10: 959-962
engineering geology *see* earthquakes; geologic hazards; permafrost; rock mechanics; soil mechanics; waste disposal; waterways
ENSO *see* El Nino Southern Oscillation
Eocene
Antarctic Ocean 10: 931-934
Gulf Coastal Plain 11: 983-986
Iran 6: 559-562
Nevada 6: 475-478
New Jersey 4: 371-373
Pakistan 2: 192-193
Eogene *see* Paleogene
eolian features *see* desert pavement; deserts
epeirophoresis theory *see* continental drift
epicontinental seas
Canada, stratigraphy 12: 1079-1082
Erduos Basin *see* Ordos Basin
Erk-el-Ahmar Formation
Quaternary 10: 887-890
erosion *see also* abrasion; bioerosion; denudation; erosion rates; exhumation; glacial erosion; landslides; sheet erosion; slope stability
Andes, structural geology 2: 135-138
Antarctica, hydrology 3: 259-262
Himalayas, structural geology 2: 135-138
Nepal, geomorphology 5: 415-418
New Jersey, Quaternary 5: 411-414
erosion features *see also* arroyos
geomorphology 6: 547-550
erosion rates 5: 407-410; 5: 427-430
Andes, geomorphology 7: 579-582
Arizona, Quaternary 11: 1035-1038
Bangladesh, hydrology 1: 23-26
California, Quaternary 5: 447-450
geomorphology 6: 511-514; 12: 1071-1074; 12: 1087-1090
Idaho, geomorphology 7: 591-594
Quaternary 9: 783-786
erosional features *see* erosion features
ERS
California, deformation 11: 975-978
eruptions *see also* volcanic earthquakes; volcanic risk; volcanoes
Alaska, geochemistry 11: 1063-1064
California, tectonophysics 7: 631-634
Iceland, sea water 6: 487-490
eruptive rocks *see* volcanic rocks
Erzgebirge
silicates 5: 391-394
escarpments *see* scarps
eskolaite
Kazakhstan, oxides 3: 263-266
ethene *see* ethylene
Ethiopia
tectonophysics 6: 527-530
Etive Complex
petrology 4: 311-314
Europa Satellite 2: 103-106
Europe *see also* Alps; Central Europe; Southern Europe; Western Europe
inclusions, Dora Maira Massif 1: 3-6
silicates, Erzgebirge 5: 391-394
stratigraphy, Swiss Jura Mountains 3: 223-226
structural geology
Ticino River 1: 35-38
Variscides 11: 991-994
European Remote Sensing satellites *see* ERS
eustasy
China, stratigraphy 10: 955-958
New Jersey, Oligocene 1: 55-58
Eutheria *see* Primates; Rodentia
evaporites *see also* potash
Italy, stratigraphy 9: 799-802
event stratigraphy
South Africa 12: 1147-1150
exhumation
British Columbia, stratigraphy 2: 99-102
China, structural geology 2: 119-122; 10: 939-942
Great Plains, geomorphology 6: 547-550
Greece, tectonics 5: 395-398
Iran, plate tectonics 6: 559-562
Italy
inclusions 1: 3-6
structural geology 1: 35-38; 12: 1143-1146
Nepal, tectonics 11: 1007-1010
Nevada, faults 5: 439-442
Norway, orogeny 4: 374-376
Pakistan
petrology 5: 435-438
plate tectonics 2: 192-193
seismology 7: 651-654
Rocky Mountains, geomorphology 6: 547-550
Switzerland, structural geology 12: 1143-1146
exogenous inclusions *see* xenoliths
exotic terranes
China, geochemistry 9: 863-866
explosive eruptions
Indonesia, Quaternary 4: 347-350
exposure age
Argentina, neotectonics 7: 619-622
Northwest Territories, Quaternary 4: 343-346
Nunavut, Quaternary 4: 343-346
extension faults
Norway 4: 374-376
extension tectonics 5: 455-458
Ethiopia, tectonophysics 6: 527-530
Nevada 5: 439-442; 8: 719-722
Turkey 7: 611-614
facies *see* blueschist facies; eclogite facies; granulite facies
Faeroe Islands
Quaternary 12: 1107-1110
fallout (volcanic ash) *see* ash falls
Famatinian Orogeny
orogeny 8: 703-706
Famennian
Canada 12: 1079-1082
Germany 5: 469-471
New York 5: 469-471
Western Australia 12: 1155-1156
Far East *see* China; Indonesia; Japan; Taiwan; Vietnam
fault scarps
Argentina, neotectonics 7: 619-622
Mississippi Valley, Quaternary 5: 419-422
fault zones
California, tectonics 1: 15-18
Costa Rica, plate tectonics 10: 907-910
New Mexico, ground water 1: 43-46
Spain, structural geology 6: 503-506
Virginia, mineralogy 11: 1027-1030
Yukon Territory, mineralogy 11: 1027-1030
faults *see also* block structures; decollement; deformation; earthquakes; grabens; horsts; nappes; shear zones; thrust sheets 9: 839-842
active faults
Argentina 7: 619-622
Arizona 11: 1035-1038
California 1: 15-18; 9: 819-822
China 11: 1051-1054
Costa Rica 10: 907-910
Greece 8: 707-710
Middle East 10: 927-930
Pacific Ocean 10: 959-962
Turkey 6: 495-498
blind faults, New Mexico 4: 367-370
detachment faults
China 2: 119-122
Greece 5: 395-398
Ireland 7: 587-590
Turkey 7: 611-614
Ethiopia, tectonophysics 6: 527-530
extension faults, Norway 4: 374-376
Germany, crust 2: 189-190
Iran, plate tectonics 6: 559-562
Japan, seismicity 2: 183-186
left-lateral faults, Vietnam 3: 219-222
normal faults
Arizona 11: 1035-1038
Greece 8: 707-710
Italy 1: 3-6
Middle East 10: 927-930
New Mexico 1: 43-46
overthrust faults, Newfoundland 9: 811-814
reverse faults
Argentina 7: 619-622
Middle East 10: 927-930
Western Australia 3: 283-286
right-lateral faults, California 4: 307-310; 7: 627-630; 11: 975-978
sea-floor spreading 11: 1023-1026
strike-slip faults
California 4: 307-310; 7: 627-630; 9: 819-822
Manitoba 9: 767-770
Mississippi Valley 5: 419-422
New Zealand 3: 279-282
Spain 6: 503-506
Turkey 6: 495-498
Switzerland, crust 2: 189-190
thrust faults
Mississippi Valley 5: 419-422
Nepal 7: 571-574; 9: 803-806
Nevada 1: 92-93
Virginia 11: 1027-1030
Washington 5: 379-382
Yukon Territory 11: 1027-1030
transcurrent faults
Basin and Range Province 1: 19-22
Great Basin 1: 19-22
transfer faults
Basin and Range Province 1: 19-22
Great Basin 1: 19-22
Ontario 8: 747-750
transform faults
Jordan 2: 171-174
New Zealand 8: 679-682
underthrust faults
Andes 2: 135-138
Himalayas 2: 135-138
Utah, metal ores 4: 331-334
Washington, geochronology 1: 51-54
wrench faults
Trinidad and Tobago 1: 75-78
Venezuela 1: 75-78
federal lands *see* public lands
feldspar group *see* alkali feldspar

felsic composition
France, geochemistry 5: 451-454
ferrihydrite
geochemistry 8: 699-702
Fillmore Formation
Invertebrata 2: 131-134
fine-grained materials
fractures 1: 79-82
Washington, geomorphology 11: 971-974
Fire Lake Unit
geochemistry 8: 731-734
first occurrence
British Columbia, stratigraphy 12: 1091-1094
fish *see* Pisces
fission tracks
California, geochemistry 2: 139-142
fission-track dating
China, structural geology 10: 939-942
Indonesia, Quaternary 7: 607-610
Italy, structural geology 1: 35-38
Turkey, structural geology 7: 611-614
flame structures
South Dakota, stratigraphy 11: 1055-1058
Fleur de Lys Supergroup
structural geology 9: 811-814
flexure
structural geology 2: 135-138; 11: 991-994
flood basalts
Antarctica, Quaternary 10: 935-938
geochemistry 8: 675-678
Greenland, geochemistry 9: 859-862
flood tuff *see* ignimbrite
floodplains
Arizona, Quaternary 5: 399-402
Bangladesh, hydrology 1: 23-26
Great Plains 6: 547-550
Montana, environmental geology 4: 355-358
Rocky Mountains 6: 547-550
sedimentary rocks 3: 247-250
Wyoming, environmental geology 4: 355-358
floods *see also* waterways
France, Quaternary 11: 1011-1014
geomorphology 12: 1071-1074
Mediterranean Sea, Quaternary 12: 1099-1102
Pacific Ocean, hydrology 7: 659-662
Peru, Quaternary 5: 431-434
Flores Island
Quaternary 7: 607-610
Florida
Eocene 11: 983-986
flowstone *see* speleothems
fluid inclusions *see also* crystal growth; paleosalinity
geochemistry 12: 1067-1070
Pyrenees, Mesozoic 3: 251-254
fluids, ore-forming *see* ore-forming fluids
fluvial features *see* arroyos; braided streams; channels; drainage patterns; floodplains; rivers; valleys
fluvial sedimentation
Bangladesh, hydrology 1: 23-26
hydrology 7: 655-658
Russian Federation 11: 999-1002
Washington, geomorphology 11: 971-974
fluvial sediments *see* stream sediments
fluvial transport *see* stream transport
fold and thrust belts
Alaska, petrology 12: 1151-1154
Andes 2: 135-138
Himalayas 2: 135-138
Spain 11: 991-994
folds
anticlines 9: 839-842
North Sea 10: 915-918
Indian Ocean, tectonophysics 8: 715-718
synclines
California 12: 1157-1158
Turkey 7: 611-614
Western Australia 3: 283-286
foliation
Manitoba 9: 767-770
New Mexico, ground water 1: 43-46
Foraminifera *see also* Fusulinina; Rotaliina
Africa, Quaternary 3: 195-198
Alberta, stratigraphy 6: 523-526
Atlantic Ocean
energy sources 1: 94-96
stratigraphy 4: 303-306
California, Quaternary 12: 1075-1078
China, stratigraphy 9: 815-818
Gulf Coastal Plain, Eocene 11: 983-986
Mexico, stratigraphy 3: 231-234; 10: 891-894
Pacific Ocean, Quaternary 7: 599-602
Panama, Neogene 3: 207-210
West Indies, energy sources 1: 94-96
fore-arc basins
stratigraphy 6: 491-494
Ireland, geochemistry 6: 543-546
foreland basins
Andes, structural geology 2: 135-138
Himalayas, structural geology 2: 135-138
Pyrenees, Mesozoic 3: 251-254
form, crystal *see* crystal form
Formosa *see* Taiwan
Fort Union Formation
stratigraphy 1: 39-42
fossil man
Indonesia, Quaternary 7: 607-610
fossil soils *see* Paleosols
Fox Hills Formation 11: 1055-1058
fractional crystallization 7: 631-634; 11: 1063-1064
fracture zones
structural geology 4: 327-330
fractures *see also* foliation 1: 79-82
joints, California 12: 1111-1114
Spain 1: 11-14
France
geochemistry, French Pyrenees 5: 451-454
ground water 4: 335-338
Mesozoic 3: 251-254
Quaternary 11: 1011-1014
Frasnian
Germany 5: 469-471
New York 5: 469-471
Western Australia 12: 1155-1156
French Polynesia *see* Marquesas Islands
French Pyrenees
geochemistry 5: 451-454
FTIR spectra
Guatemala, petrology 10: 911-914
Fuego eruption 1974
petrology 10: 911-914
fullerenes
China, stratigraphy 9: 815-818
furrows
New Jersey, Quaternary 5: 411-414
Fusulinidae
China, tectonics 1: 90-91
gabbros
Alaska 12: 1151-1154
Atlantic Ocean, tectonophysics 11: 979-982
Gakkel Ridge *see* Mid-Arctic Ocean Ridge
Galapagos Rift
tectonophysics 2: 127-130
galena
metal ores 1: 59-62
Ganges River
hydrology 1: 23-26
Garden City Formation
Invertebrata 2: 131-134
Garlock Fault
deformation 11: 975-978
garnet group
Kazakhstan 3: 263-266
Nepal, structural geology 7: 571-574
Russian Federation 6: 479-482
tectonophysics 8: 667-670
gas hydrates
Colombia, stratigraphy 2: 159-162
energy sources 9: 867-870
Louisiana, continental slope 2: 107-110
Proterozoic 5: 443-446
Switzerland, stratigraphy 3: 223-226
gas seeps
Germany, stratigraphy 3: 271-274
Gastropoda *see also* Pteropoda
China 9: 815-818
Gulf Coastal Plain, Eocene 11: 983-986
Gaussberg-Kerguelen Ridge *see* Kerguelen Plateau
general circulation models
Permian 1: 7-10
Geneseo Formation
stratigraphy 5: 469-471
geochemical anomalies
Antarctic Ocean, geochemistry 2: 147-150
Atlantic Ocean
geochemistry 3: 243-246
stratigraphy 4: 303-306
Greenland, geochemistry 9: 859-862
Hungary, stratigraphy 11: 1047-1050
Iran, Cambrian 11: 995-998
Northwest Territories, tectonophysics 5: 423-426
geochemical controls
Bangladesh, hydrology 1: 23-26
metal ores 1: 59-62
Western Australia, metal ores 8: 687-690
geochemical cycle *see also* carbon cycle
Black Sea 6: 555-558
Germany, stratigraphy 5: 469-471
Mediterranean Sea, Quaternary 12: 1099-1102
New York, stratigraphy 5: 469-471
North Sea 6: 555-558
Permian 1: 7-10
geochemical methods
metal ores 5: 467-468
geochemistry
lithogeochemistry, Russian Federation 3: 267-270
geochronology *see* absolute age
geodesy *see also* Global Positioning System
California, Quaternary 9: 819-822
Mississippi Valley, Quaternary 5: 419-422
geologic barometry *see also* P-T-t paths
Pakistan, petrology 5: 435-438
geologic hazards *see also* floods; ground motion; hurricanes; landslides; paleoseismicity; seismic risk; slope stability; tsunamis; volcanic risk; volcanoes
China, stratigraphy 9: 815-818
Hawaii, lava 2: 163-166
Mississippi Valley, Quaternary 2: 175-178
Washington, plate tectonics 5: 379-382
geologic thermometry *see also* P-T-t paths
Alaska, Quaternary 9: 775-778
Pakistan, petrology 5: 435-438
geological barometry *see* geologic barometry
geomicrobiology
Arizona, diagenesis 1: 47-50
geomorphologic controls
environmental geology 4: 355-358
geomorphology *see also* denudation; erosion; fluvial features; glacial geology; gravel-bed streams; impact features; incised-valley systems; mass movements; mud volcanoes; sea-level changes; shore features; solution features; volcanic features; weathering 8: 683-686
China, Quaternary 11: 1051-1054
Himalayas, plate tectonics 9: 791-794
geophysical methods
acoustical methods
ocean floors 10: 959-962
Quaternary 5: 411-414

seismology 12: 1139-1142
electromagnetic methods, tectonophysics 5: 423-426
gravity methods, petrology 12: 1151-1154
magnetotelluric methods, tectonophysics 5: 423-426
seismic methods, tectonophysics 6: 527-530; 8: 715-718
geophysical surveys *see* acoustical methods; electromagnetic methods; gravity methods; magnetic methods; magnetotelluric methods; seismic methods
geotectonics *see* tectonics
geothermal fields
Pacific Ocean, ocean floors 10: 959-962
geothermal gradient
Pakistan, seismology 7: 651-654
Permian 1: 7-10
Germany *see also* Zechstein
crust 2: 189-190
silicates, Saxony Germany 5: 391-394
stratigraphy 5: 469-471
Harz Mountains 3: 271-274; 5: 471
girvanella 9: 763-766
glacial erosion
British Columbia, stratigraphy 2: 99-102
California, geomorphology 8: 759-760
glacial extent
Africa, Quaternary 3: 195-198
Antarctica, Quaternary 12: 1103-1106
Greenland, Quaternary 1: 71-74
Montana, Quaternary 12: 1095-1098
Norway, Quaternary 3: 199-202
glacial features *see* fluvial features; glacial erosion; glaciated terrains; ice streams; valleys
glacial geology *see* ancient ice ages; boulders; glacial erosion; glacial rebound; glaciated terrains; glaciation; glaciers; ice caps; ice movement; ice sheets; ice shelves; ice streams; ice-marginal features; interstadial environment; Milankovitch theory; moraines; till; valleys
glacial lobes
Quaternary 11: 1039-1042
glacial maximum, last *see* last glacial maximum
glacial rebound
Mississippi Valley, Quaternary 2: 175-178
glacial recession *see* deglaciation
glacial sedimentation *see* glaciomarine sedimentation
glaciated terrains
California, geomorphology 8: 759-760
Washington, geomorphology 11: 971-974
glaciation *see also* deglaciation; erosion; glacial extent; glacial rebound; glaciers; ice movement; ice shelves; last glacial maximum
Proterozoic 12: 1135-1138
stratigraphy 2: 179-182
glaciers *see* ice movement; ice sheets; ice streams; ice-marginal features; moraines
glaciology *see* glacial geology
glaciomarine sedimentation
Ireland, Quaternary 9: 795-798
Norway, Quaternary 3: 199-202
glass materials 9: 867-870
Antarctica, hydrology 3: 259-262
South Australia, Quaternary 10: 899-902
glasses *see* volcanic glass
glassy feldspar *see* sanidine
gliding (tectonics) *see* gravity sliding
global change *see* climate change; global warming
global circulation models *see* general circulation models
Global Positioning System
Basin and Range Province, neotectonics 1: 19-22
Great Basin, neotectonics 1: 19-22
Trinidad and Tobago, plate tectonics 1: 75-78
Turkey, earthquakes 6: 495-498
Venezuela, plate tectonics 1: 75-78
Global Surveyor Program (Mars) *see* Mars Global Surveyor Program
global warming
Antarctic Ocean, Pliocene 1: 67-70
Paleocene 4: 315-318
Globigerina bulloides
Greenland, Quaternary 1: 71-74
Globigerinacea *see* Globorotaliidae
Globigerinidae *see* Globigerina
Globigerinoides *see* Globigerinoides sacculifer
Globigerinoides ruber
Greenland, Quaternary 1: 71-74
Indian Ocean, Quaternary 1: 63-66
Mediterranean Sea, Quaternary 12: 1099-1102
Globigerinoides sacculifer
Atlantic Ocean, Quaternary 3: 239-242
Globorotalia
Atlantic Ocean, Quaternary 3: 239-242
gneisses *see also* biotite gneiss; granite gneiss
Germany, silicates 5: 391-394
Italy, structural geology 12: 1143-1146
Kazakhstan, oxides 3: 263-266
Switzerland, structural geology 12: 1143-1146
Vietnam, tectonics 3: 219-222
goethite
Virginia, sedimentary petrology 9: 843-846
gold ores 6: 539-542
China 8: 711-714
Gondwana
Antarctic Ocean, continental drift 3: 235-238
Antarctica, tectonics 5: 463-466
Atlantic Ocean, geochemistry 3: 243-246
Brazil, Proterozoic 4: 319-322
New Zealand, tectonophysics 3: 279-282
Spain, structural geology 11: 991-994
Gorda Plate
Pacific Ocean, plate tectonics 8: 591-694
Gotlandian *see* Silurian
gouge
Spain, structural geology 6: 503-506
GPS tracking *see* Global Positioning System
grabens *see also* horsts
China, faults 4: 339-342
Mexico, tectonophysics 6: 507-510
Nevada, faults 5: 439-442
graded bedding
France, Quaternary 11: 1011-1014
Gramineae *see* Spartina alterniflora
Grand Canyon
Quaternary 11: 1035-1038
granites *see also* A-type granites
Antarctic Ocean, Eocene 10: 931-934
geomorphology 6: 511-514
granitic gneiss *see* granite gneiss
granulites
China, structural geology 2: 119-122
Graptolithina
China, stratigraphy 10: 955-958
stratigraphy 8: 671-674
gravel-bed streams
Washington, geomorphology 11: 971-974
gravitational differentiation *see* crystal fractionation
gravity faults *see* normal faults
gravity methods
petrology 12: 1151-1154
gravity sliding
Argentina, neotectonics 7: 619-622
Great Australian Bight *see* ODP Site 1130
Great Barrier Reef 6: 483-486
Great Basin
geochemistry 2: 139-142
neotectonics 1: 19-22
Great Britain *see* Scotland
Great Lakes
Quaternary, Lake Michigan 11: 1039-1042
Great Plains
geomorphology 6: 547-550
stratigraphy 11: 1055-1058
Greater Antilles *see* Cuba
Greece
Quaternary, Parnassus 8: 707-710
structural geology 10: 927-930
tectonics 5: 395-398
Greek Aegean Islands *see* Cyclades
Green Lake
Quaternary 9: 807-810
greenhouse effect
Japan, sedimentary petrology 1: 87-89
Pacific Ocean, Quaternary 12: 1115-1118
Western Interior, stratigraphy 4: 363-366
Greenland
geochemistry 9: 859-862
Quaternary, Greenland ice sheet 1: 71-74
stratigraphy, Jameson Land 4: 351-354
Greenland ice sheet
Quaternary 1: 71-74
Greenland Sea *see* Norwegian Sea
greenstone belts
South Africa, Archean 12: 1159-1160
Western Australia
folds 3: 283-286
stratigraphy 12: 1083-1086
Grenvillian Orogeny
structural geology 4: 327-330
ground motion
Taiwan, geologic hazards 9: 831-834
ground water *see also* aquifers; hot springs; preferential flow; recharge; springs; thermal waters
New Mexico, structural geology 4: 367-370
Taiwan, geologic hazards 9: 831-834
ground-water replenishment *see* recharge
Guatemala *see also* Fuego
energy sources 1: 94-96
Gulf Coastal Plain *see also* Alabama; Florida; Mississippi; Mississippi Embayment 10: 883-886
crust 2: 189-190
pedogenesis 10: 943-946
Gulf of California
tectonophysics 5: 459-462
Gulf of Corinth
faults 5: 439-442
Gulf of Mexico 10: 883-886
continental slope 2: 107-110
energy sources, Campeche Bank 1: 94-96
stratigraphy 10: 891-894
Gunnison County Colorado
Proterozoic 11: 1015-1018
guyots *see* seamounts
H-2 *see* deuterium
halides *see* chlorides
halogens *see* chlorine
halokinesis *see* salt tectonics
Hamilton County Ohio *see* Cincinnati Ohio
Harz Mountains
stratigraphy 3: 271-274; 5: 471
harzburgite
China, geochemistry 9: 863-866
geochemistry 9: 851-854
Hawaii
lava, Mauna Loa 2: 163-166
pedogenesis, Kohala 6: 563-565
Hawaii Island *see* Kohala
hazardous waste
structural geology 5: 387-390
He *see* helium
He-3
Arizona, Quaternary 11: 1035-1038
Montana, Quaternary 12: 1095-1098
He/He
Arizona, Quaternary 11: 1035-1038

Heard Plateau *see* Kerguelen Plateau
heat flow *see also* geothermal gradient 2: 103-106
California 7: 631-634
China, geochemistry 9: 863-866
heating
Italy, petrology 11: 1043-1046
heavy metals
environmental geology 4: 355-358
Hekla
sea water 6: 487-490
helium
British Columbia, stratigraphy 2: 99-102
He-3
Arizona 11: 1035-1038
Montana 12: 1095-1098
Hell Creek Formation 1: 39-42
Hellenides
tectonics 5: 395-398
Henryhouse Formation 8: 671-674
Hercynian Orogeny
Spain, structural geology 11: 991-994
Hercynides *see* Variscides
hervidero *see* mud volcanoes
heterochrony *see* diachronism
High Plains *see* Great Plains
high-field-strength elements
geochemistry 8: 675-678
Yukon Territory, geochemistry 8: 731-734
Himalayas *see also* Main Central Thrust; Nepal
hydrology 1: 23-26
petrology 5: 435-438
plate tectonics 2: 192-193; 9: 791-794
Quaternary, Nanga Parbat 3: 287
seismology, Nanga Parbat 7: 651-654
structural geology 2: 135-138
tectonics, Lesser Himalayas 11: 1007-1010
Hindeodus parvus
stratigraphy 4: 351-354
historical geology 11: 987-990
Holland *see* Netherlands
Holocene
Antarctic Ocean 9: 787-790
Arizona 5: 399-402
Atlantic Ocean 3: 239-242
California 5: 447-450; 9: 819-822; 9: 855-858; 12: 1075-1078
China 11: 1051-1054
Colombia 6: 519-522
Costa Rica 2: 151-154
Faeroe Islands 12: 1107-1110
France 11: 1011-1014
Greece 8: 707-710
Greenland 6: 551-554
Gulf Coastal Plain 10: 943-946
Indonesia 4: 347-350
Manitoba 8: 743-746
Mediterranean Sea 11: 1031-1034; 12: 1099-1102
Mississippi Valley 2: 175-178; 5: 419-422
Neoglacial, Africa 1: 83-86
Nevada 9: 855-858
New Jersey 5: 411-414; 7: 615-618
New Mexico 7: 643-646
New York 9: 807-810
Oman 7: 623-626
Peru 5: 431-434; 7: 603-606
Preboreal, Russian Federation 11: 999-1002
Switzerland 6: 551-554
Hominidae *see also* Homo
Israel, Quaternary 10: 887-890
Homo erectus
China, Quaternary 1: 27-30
Indonesia, Quaternary 7: 607-610
Honghe Fault *see* Red River Fault
Honshu *see also* Tohoku
geochemistry 4: 323-326
seismicity 2: 183-186
hornblende
China, faults 4: 339-342
hornfels
Scotland 4: 311-314
hornstone *see* chert
horsts
Red Sea, tectonophysics 10: 895-898
hot spots
tectonophysics 4: 291-294; 8: 695-698
hot springs
Argentina, Quaternary 11: 1059-1062
Iceland, Archean 9: 823-826
Nepal 9: 803-806
Huang He
geomorphology 10: 951-954
Hudsonian Orogeny
Colorado 11: 1015-1018
Humber Zone *see* Newfoundland
hummocky cross-stratification
Japan 1: 87-89
Hungary
stratigraphy 11: 1047-1050
hurricanes
New Jersey, Quaternary 7: 615-618
Hwang Ho *see* Huang He
hyaloclastite
stratigraphy 2: 179-182
hydrates, gas *see* gas hydrates
hydraulic conductivity
ground water 4: 335-338
hydraulic gradients *see* hydraulics
hydraulic head
Taiwan, geologic hazards 9: 831-834
hydraulics
Antarctica, hydrology 3: 259-262
hydrocarbons *see also* aliphatic hydrocarbons
Germany, stratigraphy 3: 271-274; 5: 471
hydrogen *see also* deuterium
D/H
Antarctic Ocean 10: 931-934
Colombia 6: 519-522
Italy 9: 799-802
hydrogeology *see* ground water; hydrology; springs; thermal waters
hydrologic cycle
Western Interior, stratigraphy 4: 363-366
hydrology *see also* floods; limnology; rills; rivers; waterways 7: 655-658
Antarctica 3: 259-262
Arizona, Quaternary 11: 1035-1038
Bangladesh 1: 23-26
California, ocean floors 11: 1019-1022
China, Neogene 1: 31-34
Idaho, geomorphology 7: 591-594
Montana, environmental geology 4: 355-358
Nepal 9: 803-806
Russian Federation, sedimentary petrology 11: 999-1002
Taiwan, geologic hazards 9: 831-834
Washington, geomorphology 11: 971-974
Wyoming, environmental geology 4: 355-358
hydrothermal alteration
Antarctic Ocean, Eocene 10: 931-934
Chile, metal ores 5: 383-386
China, gold ores 8: 711-714
Washington, geologic hazards 9: 779-782
hydrothermal plumes *see* plumes
hydrothermal vents *see also* black smokers
Louisiana, continental slope 2: 107-110
hydroxides *see* oxyhydroxides
hyperpycnal flow
California, ocean floors 11: 1019-1022
France, Quaternary 11: 1011-1014
hydrology 7: 655-658
Iapetus
Ireland, geochemistry 6: 543-546
Newfoundland, structural geology 9: 811-814
Iberian Peninsula *see* Spain
ice caps
Greenland, Quaternary 1: 71-74
Montana, Quaternary 12: 1095-1098
ice cores
Faeroe Islands, Quaternary 12: 1107-1110
Quaternary 6: 551-554
ice mantle *see* ice sheets
ice movement *see also* ice streams
Antarctic Ocean, Pliocene 1: 67-70
Illinois, Quaternary 11: 1039-1042
Norway, Quaternary 3: 199-202
Pakistan, Quaternary 3: 287
Wisconsin, Quaternary 11: 1039-1042
ice rafting
Antarctic Ocean, Quaternary 9: 787-790
stratigraphy 2: 179-182
ice sheets *see also* glacial lobes
Africa, Quaternary 3: 195-198
Antarctic Ocean, Pliocene 1: 67-70
Greenland, Quaternary 1: 71-74
Ireland, Quaternary 9: 795-798
Quaternary 4: 343-346
ice shelves
Antarctic Ocean, Quaternary 9: 787-790
ice streams
Antarctica, hydrology 3: 259-262
Ireland, Quaternary 9: 795-798
Northwest Territories, Quaternary 4: 343-346
Nunavut, Quaternary 4: 343-346
ice-marginal features
Norway, Quaternary 3: 199-202
ice-rafting *see* ice rafting
icebergs
New Jersey, Quaternary 5: 411-414
Iceland
Archean 9: 823-826
sea water, Hekla 6: 487-490
Icelandic Plume
Greenland, geochemistry 9: 859-862
ichnofossils
Atlantic Ocean, energy sources 1: 94-96
British Columbia, stratigraphy 12: 1091-1094
West Indies, energy sources 1: 94-96
ICP mass spectra
Chile, metal ores 5: 383-386
Idaho *see also* Idaho Batholith
Invertebrata 2: 131-134
Idaho Batholith
geomorphology 7: 591-594
igneous rocks *see also* intrusions
A-type granites, Wyoming 6: 515-518
adakites
Costa Rica 2: 127-130
Mexico 6: 531-534
andesites, Japan 4: 323-326
basalts
Alaska 12: 1151-1154
Antarctic Ocean 2: 147-150
Hawaii 6: 563-565
Jordan 2: 171-174
Mexico 6: 531-534
boninite, Yukon Territory 8: 731-734
dunite, sea-floor spreading 11: 1023-1026
flood basalts
Antarctica 10: 935-938
geochemistry 8: 675-678
Greenland 9: 859-862
gabbros
Alaska 12: 1151-1154
Atlantic Ocean 11: 979-982
granites
Antarctic Ocean 10: 931-934
geomorphology 6: 511-514
harzburgite
China 9: 863-866
Papua New Guinea 9: 851-854

Russian Federation 9: 851-854
hyaloclastite, stratigraphy 2: 179-182
ignimbrite, Mexico 5: 459-462
kimberlite, Russian Federation 3: 267-270
lherzolite, France 5: 451-454
melilitite, Greenland 9: 859-862
mid-ocean ridge basalts
Atlantic Ocean 3: 243-246
Greenland 9: 859-862
minette
Northwest Territories 9: 827-830
Nunavut 9: 827-830
ocean-island basalts
Costa Rica 2: 127-130
geochemistry 8: 675-678
Mexico 6: 507-510
olivine tholeiite, California 7: 631-634
peridotites
Atlantic Ocean 2: 155-158; 11: 979-982
Indian Ocean 2: 155-158
Japan 4: 323-326
phonolites, Italy 11: 1043-1046
plutonic rocks, Russian Federation 2: 167-170
porphyry, Chile 5: 383-386
pumice
Alaska 9: 775-778
California 3: 275-278
Indonesia 4: 347-350
New Mexico 3: 275-278
rhyolites
Alaska 9: 775-778
Nevada 6: 475-478
syenites, Italy 11: 1043-1046
tholeiite, California 7: 631-634
tuff
California 3: 275-278
Mexico 5: 459-462
New Mexico 3: 275-278
volcanic glass
Atlantic Ocean 3: 243-246
Guatemala 10: 911-914
Hawaii 2: 163-166
volcanic rocks, Nevada 8: 719-722
ignimbrite
Mexico, tectonophysics 5: 459-462
Illinois *see* Lake Michigan; Mount Simon Sandstone
Illinois Basin
geochemistry 12: 1067-1070
ilmenite
Alaska, Quaternary 9: 775-778
imbricate tectonics
Argentina 8: 703-706
Norway 4: 374-376
impact features *see* cratering; Sudbury Structure
incarbonization *see* coalification
incised-valley systems
Arizona, Quaternary 5: 399-402
geomorphology 12: 1071-1074; 12: 1087-1090
Nepal, geomorphology 5: 415-418
Quaternary 9: 783-786
inclusions *see also* fluid inclusions
California, geochemistry 3: 275-278
Guatemala 10: 911-914
Italy 1: 3-6
mineral inclusions, Kazakhstan 3: 263-266
New Mexico, geochemistry 3: 275-278
xenoliths
France 5: 451-454
Papua New Guinea 9: 851-854
Russian Federation 9: 851-854
Scotland 4: 311-314
incoalation *see* coalification
increment *see* recharge
incrustations *see* encrustations
Indian Ocean *see also* Antarctic Ocean; Kerguelen Plateau; Red Sea
petrology, Southwest Indian Ridge 2: 155-158
Quaternary, Bay of Bengal 1: 63-66
tectonophysics, Bengal Fan 8: 715-718
Indian Peninsula *see* Bangladesh; Jammu and Kashmir; Nepal; Pakistan
Indian Plate
Nepal, structural geology 7: 571-574
Pakistan, petrology 5: 435-438
Indiana *see* Illinois Basin; Mount Simon Sandstone
Indo-Sinian Orogeny *see* Indosinian Orogeny
Indonesia
Quaternary 4: 347-350; 7: 607-610
Indosinian Orogeny
Vietnam, structural geology 3: 211-214
inductively coupled plasma mass spectra *see* ICP mass spectra
infiltration
Mexico, tectonophysics 6: 507-510
infrared spectra *see* FTIR spectra
Inland Sea
geochemistry 4: 323-326
inland seas *see* epicontinental seas
Inner Mongolia China
geomorphology 10: 951-954
stratigraphy 10: 955-958
inner transition elements *see* rare earths
intermediate-focus earthquakes
Japan, tectonophysics 4: 299-302
interstadial environment
Pakistan, Quaternary 3: 287
intrusions
Antarctic Ocean, Eocene 10: 931-934
batholiths
California 6: 491-494
Mexico 6: 491-494
Montana 8: 723-726
Wyoming 6: 515-518
Chile, metal ores 5: 383-386
diatremes, Antarctica 10: 935-938
dikes
Colorado 3: 255-258
Ethiopia 6: 527-530
France 5: 451-454
Hawaii 2: 163-166
Japan 3: 255-258
Jordan 2: 171-174
Ontario 8: 747-750
structural geology 8: 727-730
geochronology 5: 403-406
plutons
California 12: 1157-1158
Colorado 11: 1015-1018
Iran 6: 559-562
Montana 8: 723-726
structural geology 8: 727-730
Russian Federation
geochemistry 3: 267-270
Jurassic 2: 167-170
intrusive mountain *see* batholiths
Invertebrata *see also* Arthropoda; Brachiopoda; Bryozoa; Coelenterata; Echinodermata; Mollusca; Protista
Western Australia, stratigraphy 12: 1155-1156
Inyo County California *see also* Inyo Mountains
Quaternary 9: 819-822
Inyo Mountains
magmas 12: 1157-1158
Io Satellite 2: 103-106
ion probe data *see* SHRIMP data
Ionian Sea
faults, Gulf of Corinth 5: 439-442
Iowa
environmental geology, Pottawattamie County Iowa 12: 1131-1134
hydrology, Clinton County Iowa 10: 875-878
IPOD *see* Leg 90; Leg 91; Leg 95
Iran
Cambrian, Elburz 11: 995-998
plate tectonics, Elburz 6: 559-562
Ireland
geochemistry, Mayo Ireland 6: 543-546
Quaternary 9: 795-798
tectonophysics 7: 587-590
iron
geochemistry 6: 535-538; 8: 699-702
metal ores 1: 59-62
iron ores
Utah 4: 331-334
iron oxides
Virginia, sedimentary petrology 9: 843-846
irrotational wave *see* P-waves
island arcs *see also* back-arc basins; fore-arc basins
geochemistry 8: 675-678
Greece, tectonics 5: 395-398
Yukon Territory, geochemistry 8: 731-734
isoprenoids
Italy, stratigraphy 9: 799-802
isostasy
Andes 2: 135-138
British Columbia, stratigraphy 2: 99-102
Himalayas 2: 135-138
Red Sea 10: 895-898
isostatic rebound *see also* glacial rebound
Manitoba, Quaternary 8: 743-746
isotope fractionation 6: 535-538; 6: 555-558; 7: 647-650; 8: 699-702
isotopes *see also* stable isotopes
Al-26
California 5: 447-450; 10: 879-882
Northwest Territories 4: 343-346
Nunavut 4: 343-346
Ar-40/Ar-39 3: 275-278
B-11/B-10, Mediterranean Sea 11: 1031-1034
Be-7, Iowa 12: 1131-1134
Be-10
California 5: 447-450; 10: 879-882
Faeroe Islands 12: 1107-1110
Idaho 7: 591-594
Montana 12: 1095-1098
Northwest Territories 4: 343-346
Nunavut 4: 343-346
C-13/C-12
Alberta 6: 523-526
Archean 11: 1003-1006
Australia 12: 1135-1138
California 2: 139-142; 12: 1111-1114; 12: 1135-1138
China 9: 871-872
Colombia 2: 159-162
Germany 5: 469-471
Greenland 4: 351-354
Hungary 11: 1047-1050
Iran 11: 995-998
Italy 9: 799-802
Mediterranean Sea 11: 1031-1034; 12: 1099-1102
Namibia 12: 1135-1138
Nevada 1: 92-93; 8: 671-674
New York 5: 469-471
Oklahoma 8: 671-674
Proterozoic 5: 443-446
Switzerland 3: 223-226
C-14
China 11: 1051-1054
Costa Rica 2: 151-154
Faeroe Islands 12: 1107-1110
New Jersey 7: 615-618
C-14/C-12, Faeroe Islands 12: 1107-1110
Cs-137
Iowa 12: 1131-1134
New Jersey 7: 615-618

D/H
Antarctic Ocean 10: 931-934
Colombia 6: 519-522
Italy 9: 799-802
He-3
Arizona 11: 1035-1038
Montana 12: 1095-1098
Nd-144/Nd-143
Antarctic Ocean 2: 147-150
Atlantic Ocean 3: 243-246
Bangladesh 1: 23-26
China 9: 863-866
France 5: 451-454
Nepal 11: 1007-1010
Northwest Territories 9: 827-830
Nunavut 9: 827-830
Russian Federation 3: 267-270
Ne-21, Argentina 7: 619-622
O-18, California 2: 139-142
O-18/O-16
Antarctic Ocean 10: 931-934
California 2: 139-142; 12: 1111-1114
China 1: 31-34
Colombia 6: 519-522
geochemistry 12: 1067-1070
Greenland 1: 71-74
Gulf Coastal Plain 11: 983-986
Hungary 11: 1047-1050
Indian Ocean 1: 63-66
Mediterranean Sea 11: 1031-1034
New York 9: 807-810
Oman 7: 623-626
Pacific Ocean 12: 1115-1118
Panama 3: 207-210
Russian Federation 6: 479-482
Vertebrata 6: 565-567
Os-188/Os-187, Chile 5: 467-468
Pb-206/Pb-204
Antarctic Ocean 2: 147-150
Atlantic Ocean 3: 243-246
Costa Rica 2: 127-130
Pb-207/Pb-204, Antarctic Ocean 2: 147-150
Pb-208/Pb-204, Antarctic Ocean 2: 147-150
Pb-210, Africa 1: 83-86
Rb-87/Sr-86, Antarctic Ocean 2: 147-150
S-34
Black Sea 6: 555-558
North Sea 6: 555-558
S-34/S-32
Arizona 1: 47-50
Black Sea 6: 555-558
China 9: 815-818
Indian Ocean 7: 647-650
North Sea 6: 555-558
Sm-147/Nd-144, Wyoming 6: 515-518
Sr-87/Sr-86
Antarctic Ocean 2: 147-150
Atlantic Ocean 3: 243-246; 4: 303-306
Bangladesh 1: 23-26
China 9: 815-818; 9: 863-866
Coral Sea 6: 483-486
France 5: 451-454
Nepal 9: 803-806
Russian Federation 3: 267-270
Israel
Quaternary 10: 887-890
Italy *see also* Apennines
inclusions, Dora Maira Massif 1: 3-6
Mesozoic, Sicily Italy 3: 251-254
petrology, Vesuvius 11: 1043-1046
stratigraphy, Sicily Italy 9: 799-802
structural geology 10: 927-930; 12: 1143-1146
Triassic, Latemar Massif 12: 1123-1126
Jameson Land
stratigraphy 4: 351-354
Jammu and Kashmir *see* Kashmir; Ladakh
Jan Mayen *see* Norwegian Sea
Japan
environmental geology 3: 255-258
geochemistry 4: 323-326
sedimentary petrology 1: 87-89
seismicity 2: 183-186
tectonophysics, Tohoku 4: 299-302
Jeerinah Formation
Precambrian 10: 963-966
Jefferson County Montana
tectonics 8: 723-726
Jefferson County Washington
geomorphology 11: 971-974
Jeletzkytes nebrascensis
stratigraphy 11: 1055-1058
Jiangsu China
Quaternary, Nanjing China 1: 27-30
Jiaodong Peninsula *see* Shandong Peninsula
joints
California, sedimentary petrology 12: 1111-1114
Jordan *see* Dead Sea Rift
Juan de Fuca Plate
Washington, plate tectonics 5: 379-382
Juan de Fuca Ridge *see* Endeavour Ridge
Jupiter *see* Europa Satellite; Io Satellite
Jura Mountains *see* Swiss Jura Mountains
Jurassic *see also* Navajo Sandstone
Bajocian, Pacific Ocean 8: 735-738
Bathonian, Pacific Ocean 8: 735-738
California 4: 307-310; 7: 627-630; 12: 1157-1158
Hungary 11: 1047-1050
Oxfordian, Switzerland 3: 223-226
Russian Federation 2: 167-170
K *see* potassium
K-feldspar
Antarctic Ocean, Eocene 10: 931-934
geochemistry 12: 1067-1070
K-T boundary
Atlantic Ocean 1: 94-96; 4: 303-306
Mexico 3: 231-234; 10: 891-894
North Dakota 1: 39-42
South Dakota 11: 1055-1058
West Indies 1: 94-96
K/Ar
Jordan, tectonophysics 2: 171-174
stratigraphy 2: 179-182
K/T boundary *see* K-T boundary
Kaghan Valley
petrology 5: 435-438
plate tectonics 2: 192-193
kalium *see* potassium
Kamchatka Peninsula
geochemistry 9: 851-854
Kangaroo Caves Formation
metal ores 8: 687-690
Kangding Complex
tectonics 3: 219-222
kaolinite
Baltic Sea, ocean circulation 3: 215-218
Colombia, Quaternary 6: 519-522
North Sea, ocean circulation 3: 215-218
Karroo Basin
stratigraphy 12: 1147-1150
karst hydrology
ground water 4: 335-338
Kashmir *see* Nanga Parbat
Katmai
geochemistry 11: 1063-1064
Quaternary 9: 775-778
Kattegat
ocean circulation 3: 215-218
Kazakhstan
oxides, Kokchetav Kazakhstan 3: 263-266
sedimentary petrology 8: 755-758
Kentucky *see* Mississippi Embayment; New Madrid region
Kenya
Quaternary, Lake Magadi 6: 499-502
kerabitumen *see* kerogen
Kerguelen Plateau *see* ODP Site 1137
Kern County California
Quaternary 5: 447-450
kerogen
Archean 11: 1003-1006
Kerry Ireland
Quaternary 9: 795-798
ketones *see* alkenones
kimberlite
Russian Federation, geochemistry 3: 267-270
Kinderhookian
Nevada 1: 92-93
knickpoints
geomorphology 6: 547-550
Kocaeli earthquake 1999
earthquakes 6: 495-498
Kohala
pedogenesis 6: 563-565
Kokchetav Kazakhstan
oxides 3: 263-266
Kongo River *see* Congo River
Krakatoa eruption 1883
Quaternary 4: 347-350
Krusny Hory Mountains *see* Erzgebirge
Kyushu
geochemistry 4: 323-326
seismicity 2: 183-186
La *see* lanthanum
lacustrine sediments *see* lake sediments
Ladakh
plate tectonics 2: 192-193
Lake Magadi
Quaternary 6: 499-502
Lake Malawi
Quaternary 1: 83-86
Lake Michigan
Quaternary 11: 1039-1042
Lake Nyasa *see* Lake Malawi
Lake Rudolph *see* Lake Turkana
lake sediments
Africa, Quaternary 1: 83-86
Faeroe Islands, Quaternary 12: 1107-1110
Greenland, Quaternary 6: 551-554
Kenya, Quaternary 6: 499-502
New York, Quaternary 9: 807-810
Switzerland, Quaternary 6: 551-554
Lake Turkana
Quaternary 6: 499-502
Lake Winnipeg
Quaternary 8: 743-746
lake-level changes
Africa, Quaternary 1: 83-86
Kenya, Quaternary 6: 499-502
lakes *see* crater lakes
lamellibranchs *see* Bivalvia
laminations
Africa, Quaternary 1: 83-86
California 10: 923-926
South Africa, Archean 12: 1159-1160
lamprophyres *see* minette
land cover
Quaternary 9: 855-858
land use
Iowa, environmental geology 12: 1131-1134
landslides *see also* avalanches; rockslides
soil mechanics 2: 143-146
Taiwan, geologic hazards 9: 831-834
Washington, geologic hazards 9: 779-782
lanthanoans *see* rare earths
lanthanum
Ireland, geochemistry 6: 543-546
lapilli
Indonesia, Quaternary 4: 347-350

Laramide Orogeny
geomorphology 6: 547-550
Laramie Mountains
geochemistry 6: 515-518
large igneous provinces
Antarctic Ocean
continental drift 3: 235-238
geochemistry 2: 147-150
Pacific Ocean, tectonophysics 3: 203-206
LARSE *see* Los Angeles Region Seismic Experiment
laser ablation
Chile, metal ores 5: 383-386
Washington, geochronology 1: 51-54
Lassen County California
Quaternary 5: 447-450
last glacial maximum
Antarctica, Quaternary 12: 1103-1106
California, Quaternary 9: 855-858
Illinois, Quaternary 11: 1039-1042
Montana, Quaternary 12: 1095-1098
Nevada, Quaternary 9: 855-858
Northwest Territories, Quaternary 4: 343-346
Nunavut, Quaternary 4: 343-346
Wisconsin, Quaternary 11: 1039-1042
Latemar Massif
Triassic 12: 1123-1126
lateral faults *see* left-lateral faults; right-lateral faults
latitude, paleo- *see* paleolatitude
Laurentia
Ireland, geochemistry 6: 543-546
Newfoundland, structural geology 9: 811-814
structural geology 4: 327-330
Laurentide ice sheet
Illinois, Quaternary 11: 1039-1042
Mississippi Valley, Quaternary 2: 175-178
New Jersey, Quaternary 5: 411-414
Northwest Territories, Quaternary 4: 343-346
Nunavut, Quaternary 4: 343-346
Wisconsin, Quaternary 11: 1039-1042
Laurussia
Spain, structural geology 11: 991-994
lava
Alaska, Quaternary 9: 775-778
California, tectonophysics 7: 631-634
China, geochemistry 9: 863-866
Costa Rica, tectonophysics 2: 127-130
Greenland, geochemistry 9: 859-862
Hawaii 2: 163-166
stratigraphy 2: 179-182
lead
Pb-206/Pb-204
Antarctic Ocean 2: 147-150
Atlantic Ocean 3: 243-246
Costa Rica 2: 127-130
Pb-207/Pb-204, Antarctic Ocean 2: 147-150
Pb-208/Pb-204, Antarctic Ocean 2: 147-150
Pb-210, Africa 1: 83-86
lead glance *see* galena
lead-lead *see* Pb/Pb
lead-zinc deposits *see* mississippi valley-type deposits
left-lateral faults
Vietnam 3: 219-222
Leg 22 *see* DSDP Site 215; DSDP Site 218
Leg 90 *see* DSDP Site 593; DSDP Site 594
Leg 91 *see* DSDP Site 595; DSDP Site 596
Leg 95 *see* DSDP Site 612
Leg 116
tectonophysics 8: 715-718
Leg 129 *see* ODP Site 801
Leg 133 6: 483-486
Leg 138 *see* ODP Site 851
Leg 150 *see* ODP Site 903; ODP Site 904
Leg 165 *see* ODP Site 999; ODP Site 1002
Leg 167 *see* ODP Site 1020
Leg 170 *see* ODP Site 1039; ODP Site 1040; ODP Site 1043
Leg 171B *see* ODP Site 1049
Leg 175 *see* ODP Site 1075; ODP Site 1077
Leg 181 *see* ODP Site 1119; ODP Site 1120; ODP Site 1123; ODP Site 1125
Leg 182 *see* ODP Site 1130
Leg 183 *see* ODP Site 1137
Leg 185 *see* ODP Site 801
Lena River
sedimentary petrology 11: 999-1002
leopoldite *see* sylvite
Lepontine Alps
structural geology 12: 1143-1146
Lesser Antilles *see* Trinidad and Tobago
Lesser Himalayas
tectonics 11: 1007-1010
lherzolite
France, geochemistry 5: 451-454
life origin
Iceland, Archean 9: 823-826
Limacina inflata
Quaternary 3: 239-242
limestone *see also* micrite
China, stratigraphy 10: 955-958
Germany, stratigraphy 3: 271-274
Greece, Quaternary 8: 707-710
Hungary, stratigraphy 11: 1047-1050
paleomagnetism 7: 583-586
Virginia, mineralogy 11: 1027-1030
Yukon Territory, mineralogy 11: 1027-1030
limnology
Argentina, Quaternary 11: 1059-1062
line defects *see* crystal dislocations
lineation *see* boudinage; foliation
lineations *see* lineation
Linglong Mine
gold ores 8: 711-714
LIP (large igneous provinces) *see* large igneous provinces
liquid inclusions *see* fluid inclusions
lithogeochemistry *see also* geochemical anomalies
Russian Federation 3: 267-270
Lithoprobe
Manitoba, structural geology 9: 767-770
Newfoundland, structural geology 9: 811-814
Virginia, mineralogy 11: 1027-1030
Yukon Territory, mineralogy 11: 1027-1030
lithosphere *see* continental lithosphere; oceanic lithosphere
lithostratigraphy
California 6: 491-494
China, tectonics 1: 90-91
Coral Sea 6: 483-486
Indonesia, Quaternary 4: 347-350
Italy 12: 1123-1126
Mexico 3: 231-234; 6: 491-494
Nevada 8: 671-674
New Jersey 1: 55-58
Newfoundland, structural geology 9: 811-814
Oklahoma 8: 671-674
Utah 2: 187-188
Little Ice Age *see* Neoglacial
Liulaobei Formation
stratigraphy 12: 1119-1122
lizardite
sea-floor spreading 11: 1023-1026
lobes, glacial *see* glacial lobes
longitudinal wave *see* P-waves
Lorca Basin
Mesozoic 3: 251-254
Los Angeles Basin
tectonics 1: 15-18
Los Angeles County California
deformation 11: 975-978
Los Angeles Region Seismic Experiment
California, tectonics 1: 15-18
Lough Nafooey Group
geochemistry 6: 543-546
Louisiana
continental slope 2: 107-110
Mississippi Delta 10: 883-886
Louisville Ridge
tectonophysics 8: 695-698
low-grade metamorphism
Japan, seismicity 2: 183-186
Precambrian 10: 963-966
Lower Carboniferous *see* Dinantian
lower crust
China
metamorphism 7: 663-664
tectonics 1: 90-91
New Zealand 8: 679-682
Lower Devonian *see* Emsian
Lower Mississippian *see* Joana Limestone; Kinderhookian; Osagian
Lower Ordovician *see* Arenigian; Fillmore Formation
lower Paleocene *see* K-T boundary
lower Pleistocene *see* Olduvai Subchron
Lower Triassic *see* Bunter; Permian-Triassic boundary
Ludfordian
stratigraphy 10: 955-958
Ludlovian
China 10: 955-958
lunar variations *see* monthly variations
Lystrosaurus
South Africa, stratigraphy 12: 1147-1150
M-discontinuity *see* Mohorovicic discontinuity
macaluba *see* mud volcanoes
MacColl Ridge Formation
stratigraphy 10: 947-950
Maccrady Formation
pedogenesis 10: 943-946
macerals *see* vitrinite
Madre de Dios Formation
stratigraphy 7: 595-598
Maestrichtian 1: 94-96
magma chambers
Alaska
geochemistry 11: 1063-1064
Quaternary 9: 775-778
California, geochemistry 3: 275-278
Italy, petrology 11: 1043-1046
New Mexico, geochemistry 3: 275-278
magma contamination
Antarctic Ocean, geochemistry 2: 147-150
magmas *see also* crystal fractionation; fractional crystallization; magma chambers
California 12: 1157-1158
Costa Rica, tectonophysics 2: 127-130
France, geochemistry 5: 451-454
geochemistry 8: 675-678
Greenland, geochemistry 9: 859-862
Guatemala 10: 911-914
Japan, geochemistry 4: 323-326
petroleum 10: 919-922
Western Australia, stratigraphy 12: 1083-1086
magmatism
Arctic Ocean, seismology 12: 1139-1142
Argentina, Quaternary 11: 1059-1062
Chile, metal ores 5: 383-386
China, faults 4: 339-342
Colorado, Proterozoic 11: 1015-1018
Ethiopia, tectonophysics 6: 527-530
geochemistry 8: 675-678
Ireland, geochemistry 6: 543-546
Montana, tectonics 8: 723-726
structural geology 8: 727-730
Western Australia, stratigraphy 12: 1083-1086
Wyoming, geochemistry 6: 515-518
Yukon Territory, geochemistry 8: 731-734
magnesian spar *see* dolomite
magnesite
Kazakhstan 3: 263-266

magnesium
Argentina, Quaternary 11: 1059-1062
China, geochemistry 9: 863-866
Hawaii, pedogenesis 6: 563-565
Japan, geochemistry 4: 323-326
magnetic anomalies
Alaska, petrology 12: 1151-1154
New Mexico, structural geology 4: 367-370
magnetic declination
Israel, Quaternary 10: 887-890
Peru, stratigraphy 7: 595-598
magnetic methods *see* magnetic anomalies
magnetic susceptibility
Africa, Quaternary 3: 195-198
paleomagnetism 7: 583-586
magnetism, paleo- *see* paleomagnetism
magnetization *see* remanent magnetization
magnetostratigraphy 2: 179-182
Coral Sea 6: 483-486
Israel, Quaternary 10: 887-890
Peru 7: 595-598
magnetotelluric methods
tectonophysics 5: 423-426
Main Central Thrust
hydrogeology 9: 803-806
structural geology 7: 571-574
main shocks
Chile, seismology 9: 847-850
Mammalia
Hominidae, Israel 10: 887-890
Homo erectus
China 1: 27-30
Indonesia 7: 607-610
Rodentia 9: 855-858
manganese
China, stratigraphy 9: 815-818
South Africa 9: 835-838
manganese ores
South Africa 9: 835-838
Utah 4: 331-334
Manitoba *see also* Superior Province
Quaternary, Lake Winnipeg 8: 743-746
mantle *see also* asthenosphere; heat flow; hot spots; sea-floor spreading 8: 667-670
Antarctic Ocean, geochemistry 2: 147-150
Atlantic Ocean, geochemistry 3: 243-246
California, tectonics 1: 15-18
China 7: 575-578
stratigraphy 9: 815-818
France, geochemistry 5: 451-454
geochemistry 8: 675-678
Greenland, geochemistry 9: 859-862
Ireland 7: 587-590
Japan 4: 299-302
geochemistry 4: 323-326
Jordan 2: 171-174
Northwest Territories 5: 423-426
geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
Papua New Guinea, geochemistry 9: 851-854
Russian Federation, geochemistry 3: 267-270; 9: 851-854
mantle plumes *see also* hot spots
Antarctic Ocean 2: 147-150
Costa Rica, tectonophysics 2: 127-130
Ethiopia, tectonophysics 6: 527-530
geochemistry 8: 675-678
Greenland, geochemistry 9: 859-862
Mexico, tectonophysics 6: 507-510
Pacific Ocean, tectonophysics 3: 203-206
marbles
California, structural geology 4: 307-310
Italy 1: 3-6
marcasite
metal ores 1: 59-62
marginal trench *see* trenches
marine sedimentation *see also* deep-sea sedimentation; glaciomarine sedimentation; marine transport
Louisiana 2: 107-110
marine sediments
Africa, Quaternary 3: 195-198
Atlantic Ocean
Quaternary 3: 239-242
stratigraphy 4: 303-306
Baltic Sea 3: 215-218
Black Sea 6: 555-558
California 10: 923-926; 11: 1019-1022
Quaternary 12: 1075-1078
Costa Rica, plate tectonics 10: 907-910
energy sources 9: 867-870
Faeroe Islands, Quaternary 12: 1107-1110
France, Quaternary 11: 1011-1014
Greenland, Quaternary 1: 71-74
Indian Ocean
geochemistry 7: 647-650
Quaternary 1: 63-66
tectonophysics 8: 715-718
Japan, geochemistry 4: 323-326
Louisiana 2: 107-110; 10: 883-886
Mediterranean Sea
geochemistry 11: 1031-1034
Quaternary 12: 1099-1102
New Jersey, mineralogy 4: 371-373
North Sea 3: 215-218; 6: 555-558
Norway, Quaternary 3: 199-202
Pacific Ocean, Quaternary 12: 1115-1118
Panama, Neogene 3: 207-210
marine terraces
California, Quaternary 10: 879-882
Costa Rica, Quaternary 2: 151-154
marine transport
Baltic Sea, ocean circulation 3: 215-218
North Sea, ocean circulation 3: 215-218
Pacific Ocean, hydrology 7: 659-662
marl
Mexico, stratigraphy 3: 231-234
New York, Quaternary 9: 807-810
Switzerland, stratigraphy 3: 223-226
Marquesas Islands
tectonophysics 8: 695-698
Mars *see also* Noachian
Alba Patera 5: 427-430
Ares Vallis 5: 427-430
Tempe Terra 5: 427-430
Mars Global Surveyor Program 5: 407-410
Mars Orbiter Laser Altimeter 5: 407-410; 5: 427-430
mass extinctions
China, stratigraphy 9: 815-818
Germany, stratigraphy 5: 469-471
Iran, Cambrian 11: 995-998
New York, stratigraphy 5: 469-471
North Dakota, stratigraphy 1: 39-42
South Africa, stratigraphy 12: 1147-1150
stratigraphy 4: 359-362; 8: 751-754
mass movements *see also* avalanches; debris flows; landslides; rockslides
Mexico, stratigraphy 3: 231-234
mass spectra *see* ICP mass spectra; ion probe data; thermal ionization mass spectra
massive sulfide deposits
China, gold ores 8: 711-714
Western Australia, metal ores 8: 687-690
Mauna Loa
lava 2: 163-166
Mayo Ireland
geochemistry 6: 543-546
mechanical erosion *see* abrasion
Mediterranean region
tectonics, Cyclades 5: 395-398
Mediterranean Ridge
geochemistry 11: 1031-1034
Mediterranean Sea *see also* East Mediterranean geochemistry, Mediterranean
Ridge 11: 1031-1034
Quaternary 11: 1011-1014; 12: 1099-1102
melange
China
metamorphism 7: 663-664
tectonics 1: 90-91
structural geology 12: 1143-1146
melilitite
Greenland, geochemistry 9: 859-862
melts *see* silicate melts
menaccanite *see* ilmenite
Menderes Massif
structural geology 7: 611-614
Mendez Formation
stratigraphy 3: 231-234; 10: 891-894
Mendocino fracture zone
plate tectonics 8: 691-694
Mesodesma donacium
Quaternary 7: 603-606
Mesozoic *see also* Cretaceous; Jurassic; Triassic 8: 751-754
China 10: 939-942
Indosinian Orogeny, Vietnam 3: 211-214
Japan 1: 87-89
Navajo Sandstone, metal ores 4: 331-334
Pyrenees 3: 251-254
Messinian
Italy 9: 799-802
Pyrenees 3: 251-254
meta-arkose
Colorado, Proterozoic 11: 1015-1018
meta-ophiolite *see* ophiolite
meta-turbidite *see* turbidite
metagranite
Western Australia, folds 3: 283-286
metaigneous rocks *see also* metaperidotite; metarhyolite; serpentinite
China 7: 663-664
metal ores *see* base metals; copper ores; gold ores; iron ores; lead-zinc deposits; manganese ores; molybdenum ores
metallic minerals *see* metal ores
metallogeny
South Africa, manganese ores 9: 835-838
Western Australia, metal ores 8: 687-690
metals *see also* actinides; alkali metals; alkaline earth metals; aluminum; iron; manganese; nickel; niobium; platinum group; rare earths; vanadium; zirconium
environmental geology 4: 355-358
metamorphic belts *see* greenstone belts
metamorphic core complexes
China
metamorphism 7: 663-664
tectonics 1: 90-91
Nevada, faults 5: 439-442
Turkey, structural geology 7: 611-614
metamorphic processes *see* metamorphism
metamorphic rocks *see also* blueschist facies; eclogite facies; metasomatic rocks
biotite gneiss, Antarctic Ocean 3: 235-238
blueschist, Greece 5: 395-398
eclogite
China 2: 119-122
Pakistan 5: 435-438
tectonophysics 8: 667-670
Western Australia 12: 1083-1086
gneisses
Germany 5: 391-394
Italy 12: 1143-1146
Kazakhstan 3: 263-266
Switzerland 12: 1143-1146
Vietnam 3: 219-222
granite gneiss, Western Australia 3: 283-286
granulites, China 2: 119-122

hornfels, Scotland 4: 311-314
marbles
California 4: 307-310
Italy 1: 3-6
meta-arkose, Colorado 11: 1015-1018
metagranite, Western Australia 3: 283-286
metaigneous rocks, China 7: 663-664
metapelite, Nepal 7: 571-574
metaperidotite, sea-floor spreading 11: 1023-1026
metaplutonic rocks, Western Australia 12: 1083-1086
metarhyolite, Colorado 11: 1015-1018
metasedimentary rocks
China 2: 119-122
Northern Territory Australia 10: 963-966
South Africa 12: 1159-1160
Western Australia 10: 963-966
metavolcanic rocks, Western Australia 12: 1083-1086
migmatites
Argentina 8: 703-706
China 2: 119-122
Italy 12: 1143-1146
Switzerland 12: 1143-1146
mylonites
Colorado 8: 739-742
Virginia 11: 1027-1030
Yukon Territory 11: 1027-1030
pseudotachylite, Washington 1: 51-54
quartzites
California 4: 307-310
Spain 1: 11-14
schists
California 4: 307-310
Italy 12: 1143-1146
Switzerland 12: 1143-1146
serpentinite, Ireland 7: 587-590
Vietnam, structural geology 3: 211-214
metamorphism *see also* P-T-t paths
Argentina, orogeny 8: 703-706
China 7: 663-664
structural geology 2: 119-122
contact metamorphism
Northern Territory Australia 10: 963-966
Scotland 4: 311-314
Western Australia 10: 963-966
Greece, tectonics 5: 395-398
Japan, tectonophysics 4: 299-302
low-grade metamorphism
Japan 2: 183-186
Northern Territory Australia 10: 963-966
Western Australia 10: 963-966
Pakistan, plate tectonics 2: 192-193
prograde metamorphism 2: 189-190
shock metamorphism
China 9: 815-818
New Jersey 4: 371-373
South Australia 10: 899-902
ultrametamorphism
Germany 5: 391-394
Italy 1: 3-6
Pakistan 5: 435-438
Vietnam, structural geology 3: 211-214
metapelite
Nepal, structural geology 7: 571-574
metaperidotite
sea-floor spreading 11: 1023-1026
metaplutonic rocks
Western Australia, stratigraphy 12: 1083-1086
metarhyolite
Colorado, Proterozoic 11: 1015-1018
metasedimentary rocks *see also* meta-arkose; metapelite
China, structural geology 2: 119-122
Northern Territory Australia, Precambrian 10: 963-966
South Africa, Archean 12: 1159-1160
Western Australia, Precambrian 10: 963-966
metasomatic rocks
sea-floor spreading 11: 1023-1026
serpentinite, Ireland 7: 587-590
skarn
Italy 11: 1043-1046
Russian Federation 6: 479-482
metasomatism 2: 123-126
China, geochemistry 9: 863-866
France, geochemistry 5: 451-454
hydrothermal alteration
Antarctic Ocean 10: 931-934
Chile 5: 383-386
China 8: 711-714
Washington 9: 779-782
Ireland, tectonophysics 7: 587-590
Japan, tectonophysics 4: 299-302
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
sea-floor spreading 11: 1023-1026
wall-rock alteration, Italy 11: 1043-1046
metasomatites *see* metasomatic rocks
metaturbidite *see* turbidite
metavolcanic rocks
Western Australia, stratigraphy 12: 1083-1086
Metazoa
British Columbia, stratigraphy 12: 1091-1094
meteors *see* bolides
methane
Archean 11: 1093-1006
Colombia, stratigraphy 2: 159-162
energy sources 9: 867-870
Louisiana, continental slope 2: 107-110
Proterozoic 5: 443-446
Switzerland, stratigraphy 3: 223-226
Mexican volcanic belt
tectonophysics 6: 507-510
Mexico
energy sources, Campeche Mexico 1: 94-96
petrology, Vizcaino Peninsula 6: 531-534
stratigraphy 10: 891-894
Nuevo Leon Mexico 3: 231-234
tectonophysics
Baja California Norte Mexico 5: 459-462
Mexican volcanic belt 6: 507-510
Sonora Mexico 5: 459-462
Mg *see* magnesium
MGS (Mars Global Surveyor) *see* Mars Global Surveyor Program
mica group *see* biotite; phengite; phlogopite
micrite 9: 763-766
California, geochemistry 2: 139-142
Canada, stratigraphy 12: 1079-1082
Switzerland, stratigraphy 3: 223-226
microbial mats *see* algal mats
microearthquakes
Pakistan 7: 651-654
Mid-Arctic Ocean Ridge
seismology 12: 1139-1142
Mid-Atlantic Ridge
geochemistry 3: 243-246
tectonophysics 11: 979-982
mid-ocean ridge basalts
Atlantic Ocean, geochemistry 3: 243-246
Greenland, geochemistry 9: 859-862
mid-ocean ridges *see* black smokers; Mid-Arctic Ocean Ridge; Mid-Atlantic Ridge; Southwest Indian Ridge
middens 9: 855-858
Middle America Trench
plate tectonics 10: 907-910
Quaternary 2: 151-154
middle crust
structural geology 8: 727-730
Middle East *see also* Iran; Israel; Jordan; Turkey
tectonophysics, Dead Sea Rift 2: 171-174
Middle Jurassic *see* Bajocian; Bathonian
Middle Silurian *see* Roberts Mountains Formation
midoceanic ridges *see* mid-ocean ridges
Miette Group 12: 1091-1094
migmatites
Argentina, orogeny 8: 703-706
China, structural geology 2: 119-122
structural geology 12: 1143-1146
Milankovitch forcing *see* orbital forcing
Milankovitch theory
Alberta, stratigraphy 6: 523-526
Faeroe Islands, Quaternary 12: 1107-1110
Greenland, Quaternary 1: 71-74
Italy, Triassic 12: 1123-1126
Kenya, Quaternary 6: 499-502
Miller Field
energy sources 10: 915-918
mineral chemistry *see* crystal chemistry
mineral deposits, genesis *see* geochemical controls; hydrothermal alteration; magmatism; metal ores; metallogeny; mississippi valley-type deposits; ore-forming fluids; placers; porphyry copper; porphyry molybdenum; volcanism
mineral exploration *see* geochemical methods
mineral inclusions
Kazakhstan, oxides 3: 263-266
mineral-water interface
California, geochemistry 2: 139-142
Japan, tectonophysics 4: 299-302
Pyrenees, Mesozoic 3: 251-254
mineralogy *see* carbonates; chlorides; oxides; sheet silicates; silicates; sulfates; sulfides
minette 9: 827-830
Miocene
Barstow Formation, geochemistry 2: 139-142
California 12: 1111-1114
China 4: 339-342; 10: 939-942
Ethiopia 6: 527-530
Greece 5: 395-398
Iran 6: 559-562
Italy 1: 35-38
Mediterranean Sea 11: 1031-1034
Messinian
Italy 9: 799-802
Pyrenees 3: 251-254
Mexico 5: 459-462; 6: 531-534
Nepal 7: 571-574
Turkey 7: 611-614
miogeosynclines
California, structural geology 4: 307-310
structural geology 4: 327-330
miospores *see* pollen
mires
New Jersey, Quaternary 7: 615-618
Mississippi *see* Mississippi Embayment; Mississippi River
Mississippi Delta 10: 883-886
Mississippi Embayment
Eocene 11: 983-986
Quaternary 5: 419-422
Mississippi River
hydrology 10: 875-878
Mississippi River delta *see* Mississippi Delta
Mississippi Valley *see* Arkansas; Kentucky; Mississippi Embayment; Missouri; Reelfoot Rift; Tennessee
mississippi valley-type deposits
metal ores 1: 59-62
Mississippian
Joana Limestone 1: 92-93
Nevada 1: 92-93
Pennington Formation, pedogenesis 10: 943-946
Missouri *see also* Mississippi Embayment; New Madrid region; Reelfoot Rift
hydrology, Saint Louis Missouri 10: 875-878
Mn *see* manganese
mobile belts
Argentina, orogeny 8: 703-706

modern analogs
Gulf Coastal Plain, pedogenesis 10: 943-946
Iceland, Archean 9: 823-826
Pacific Ocean, tectonophysics 3: 203-206
South Africa, manganese ores 9: 835-838
Mohave County Arizona
Quaternary 11: 1035-1038
Mohave Desert *see* Mojave Desert
Mohorovicic discontinuity
California, tectonics 1: 15-18
China 7: 575-578
Mojave Desert
deformation 11: 975-978
geochemistry 2: 139-142
Quaternary 9: 855-858
tectonics 1: 15-18
MOLA data 5: 407-410; 5: 427-430
molecular fossils *see* biomarkers
Mollusca
Ammonoidea
China 9: 815-818
Hungary 11: 1047-1050
Switzerland 3: 223-226
Bivalvia
China 1: 90-91; 9: 815-818
Mediterranean Sea 11: 1031-1034
Peru 7: 603-606
South Dakota 11: 1055-1058
stratigraphy 4: 359-362
Gastropoda
China 9: 815-818
Gulf Coastal Plain 11: 983-986
Pteropoda, Atlantic Ocean 3: 239-242
Scaphites, South Dakota 11: 1055-1058
Solemyida, Germany 3: 271-274
Unionidae, China 1: 31-34
molybdenum ores *see* porphyry molybdenum
monazite
Antarctic Ocean, continental drift 3: 235-238
Colorado, structural geology 8: 739-742
Nepal, structural geology 7: 571-574
Precambrian 10: 963-966
Monera *see* prokaryotes
Mono County California
structural geology 4: 307-310
Monocotyledoneae *see* Gramineae
monsoons
Africa, Quaternary 3: 195-198
Bangladesh, hydrology 1: 23-26
China, Neogene 1: 31-34
Indian Ocean, Quaternary 1: 63-66
Oman, Quaternary 7: 623-626
Pakistan, Quaternary 3: 287
Montana *see also* Missouri River
environmental geology, Yellowstone National Park 4: 355-358
County Montana
Quaternary, Park County Montana 12: 1095-1098
tectonics 8: 723-726
Monterey Bay
ocean floors 11: 1019-1022
sedimentary petrology 12: 1111-1114
Monterey Canyon
ocean floors 11: 1019-1022
Monterey County California
ocean floors 11: 1019-1022
Monterey Trough *see* Monterey Canyon
monthly variations
South Africa, Archean 12: 1159-1160
Moodies Group
Archean 12: 1159-1160
moraines
Illinois, Quaternary 11: 1039-1042
Montana, Quaternary 12: 1095-1098
Norway, Quaternary 3: 199-202
Wisconsin, Quaternary 11: 1039-1042
MORB *see* mid-ocean ridge basalts
Moroccan Atlas Mountains *see* Anti-Atlas
Morocco
paleomagnetism, Anti-Atlas 7: 583-586
Mothra hydrothermal field
ocean floors 10: 959-962
motion, ground *see* ground motion
Mount Rainier
geologic hazards 9: 779-782
Mount Shasta
tectonophysics 7: 631-634
Mount Simon Sandstone
geochemistry 12: 1067-1070
movements, mass *see* mass movements
Mucuplagum
stratigraphy 12: 1119-1122
mud 3: 215-218
mud volcanoes
Ireland, tectonophysics 7: 587-590
Mediterranean Sea, geochemistry 11: 1031-1034
mudstone
California 12: 1111-1114
South Africa, stratigraphy 12: 1147-1150
MVT-type deposits *see* mississippi valley-type deposits
Mweelrea Formation
geochemistry 6: 543-546
mylonites *see also* pseudotachylite
Colorado, structural geology 8: 739-742
mineralogy 11: 1027-1030
N *see* nitrogen
n-alkanes
Italy, stratigraphy 9: 799-802
Na *see* sodium
Namacalathus
stratigraphy 12: 1091-1094
Namibia
Proterozoic 12: 1135-1138
Namurian 2: 111-114
Nanga Parbat
Quaternary 3: 287
seismology 7: 651-654
Nanjing China
Quaternary 1: 27-30
Nankaido earthquake 1946
Japan 2: 183-186
nannofossils
New Jersey, Oligocene 1: 55-58
Nansen-Gakkel Ridge *see* Mid-Arctic Ocean Ridge
nappes
Italy, structural geology 12: 1143-1146
Norway, orogeny 4: 374-376
Pakistan, petrology 5: 435-438
Switzerland
stratigraphy 3: 223-226
structural geology 12: 1143-1146
Turkey, structural geology 7: 611-614
native elements *see* diamond
natrium *see* sodium
natural analogs
Atlantic Ocean, Quaternary 3: 239-242
faults 9: 839-842
Iceland, Archean 9: 823-826
natural remanent magnetization
Israel, Quaternary 10: 887-890
Navajo Sandstone
metal ores 4: 331-334
NAVSTAR GPS *see* Global Positioning System
Nb *see* niobium
Nd-144/Nd-143
Antarctic Ocean, geochemistry 2: 147-150
Atlantic Ocean, geochemistry 3: 243-246
Bangladesh, hydrology 1: 23-26
China, geochemistry 9: 863-866
France, geochemistry 5: 451-454
Nepal, tectonics 11: 1007-1010
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
Russian Federation, geochemistry 3: 267-270
Nd/Nd
China, metamorphism 7: 663-664
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
Nd/Sm *see* Sm/Nd
Ne-21
Argentina, neotectonics 7: 619-622
Nei Mongol China *see* Inner Mongolia China
Neogene *see also* Miocene; Pliocene
British Columbia 2: 99-102
China 1: 31-34
Nevada 8: 719-722
Panama 3: 207-210
Utah 4: 331-334
Neoglacial
Africa 1: 83-86
neon
Ne-21, Argentina 7: 619-622
Neoproterozoic *see* Rodinia; Vendian
neotectonics *see also* faults; uplifts
Argentina 7: 619-622
Basin and Range Province 1: 19-22
California, Quaternary 9: 819-822
China, Quaternary 11: 1051-1054
Great Basin 1: 19-22
Greece, Quaternary 8: 707-710
Italy 1: 35-38
Mississippi Valley, Quaternary 5: 419-422
Nepal, hydrogeology 9: 803-806
Trinidad and Tobago, plate tectonics 1: 75-78
Turkey 7: 611-614
Venezuela, plate tectonics 1: 75-78
Nepal *see* Lesser Himalayas; Main Central Thrust; Siwalik Range
nesosilicates *see* braunite; garnet group; olivine group; titanite; zircon
Netherlands
structural geology 5: 387-390
Neuquen Argentina
Quaternary 11: 1059-1062
Nevada *see also* Roberts Mountains Formation
faults, White Pine County Nevada 5: 439-442
Quaternary, Clark County Nevada 9: 855-858
stratigraphy, Roberts Mountains Allochthon 1: 92-93
structural geology, Reno Nevada 8: 719-722
tectonics, White Pine County Nevada 6: 475-478
New Jersey
mineralogy 4: 371-373
Oligocene 1: 55-58
Quaternary 5: 411-414
Cape May County New Jersey 7: 615-618
New Madrid region
Quaternary 2: 175-178; 5: 419-422
New Mexico *see also* Bandelier Tuff
ground water 1: 43-46
Quaternary, Eddy County New Mexico 7: 643-646
structural geology 4: 367-370
New York
Quaternary, Onondaga County New York 9: 807-810
stratigraphy 5: 469-471
New Zealand *see also* Alpine Fault; North Island; South Island
tectonophysics 3: 279-282
Newfoundland
geologic hazards, Burin Peninsula 10: 967
structural geology 9: 811-814
Newfoundland Island *see* Burin Peninsula
nick points *see* knickpoints
nickel
China, stratigraphy 9: 815-818
nickpoints *see* knickpoints
Nicoya Peninsula
Quaternary 2: 151-154

Nile River
Quaternary 12: 1099-1102
Ningxia China
geomorphology 10: 951-954
niobium
Ireland, geochemistry 6: 543-546
Mexico, petrology 6: 531-534
nitrogen 5: 469-471
Noachian 5: 407-410
noble gases *see* helium
normal faults
Arizona, Quaternary 11: 1035-1038
Greece, Quaternary 8: 707-710
Italy, inclusions 1: 3-6
Middle East 10: 927-930
New Mexico, ground water 1: 43-46
North Africa *see* Atlas Mountains
North America *see also* Appalachians; Basin and Range Province; Canada; Canadian Shield; Great Lakes; Great Plains; Rocky Mountains; Western Interior; Yellowstone Hot Spot
geochemistry, Yukon-Tanana Terrane 8: 731-734
ground water, Rio Grande Rift 1: 43-46
hydrology, Mississippi River basin 10: 875-878
pedogenesis, Appalachian Basin 10: 943-946
Proterozoic 12: 1135-1138
stratigraphy 10: 947-950
Western Canada Sedimentary Basin 12: 1079-1082
North American Plate
neotectonics 1: 19-22
Mexico, tectonophysics 5: 459-462
North Anatolian Fault
earthquakes 6: 495-498
North Atlantic *see* Baltic Sea; Blake Plateau; Caribbean Sea; Celtic Sea; Gulf of Mexico; North Sea
North Atlantic Deep Water
Atlantic Ocean, Quaternary 3: 239-242
North Dakota
stratigraphy 1: 39-42
North Island
Paleocene 4: 315-318
North Sea
crust 2: 189-190
energy sources 10: 915-918
Kattegat 6: 555-558
ocean circulation 3: 215-218
Northampton County Virginia
sedimentary petrology 9: 843-846
Northeast Japan *see* Tohoku
Northeast Pacific *see* Gulf of California; Juan de Fuca Ridge; Mendocino fracture zone; Middle America Trench; Monterey Canyon
Northern Alaska *see* Brooks Range
Northern Hemisphere
Quaternary 1: 63-66; 3: 239-242
Northern Province South Africa
manganese ores 9: 835-838
Northern Territory Australia
Precambrian, Pine Creek Geosyncline 10: 963-966
Northern Transvaal South Africa *see* Northern Province South Africa
Northwest Territories *see also* Rae Province; Slave Province
Quaternary 4: 343-346
Norway
orogeny 4: 374-376
Quaternary 3: 199-202
Norwegian Sea
tectonophysics 3: 203-206
Novarupta eruption 1912
Quaternary 9: 775-778
NRM *see* natural remanent magnetization
nuclear fallout *see* radioactive fallout
nuclear waste *see* radioactive waste
Nuevo Leon Mexico
stratigraphy 3: 231-234
Nunavut *see* Baffin Island; Rae Province
Nye County Nevada *see* Mojave Desert
O *see* oxygen
O-16/O-18 *see* O-18/O-16
O-18/O-16
Antarctic Ocean, Eocene 10: 931-934
California
geochemistry 2: 139-142
sedimentary petrology 12: 1111-1114
China, Neogene 1: 31-34
Colombia, Quaternary 6: 519-522
geochemistry 12: 1067-1070
Greenland, Quaternary 1: 71-74
Gulf Coastal Plain, Eocene 11: 983-986
Hungary, stratigraphy 11: 1047-1050
Indian Ocean, Quaternary 1: 63-66
Mediterranean Sea, geochemistry 11: 1031-1034
New York, Quaternary 9: 807-810
Oman, Quaternary 7: 623-626
Pacific Ocean, Quaternary 12: 1115-1118
Panama, Neogene 3: 207-210
Russian Federation, mineralogy 6: 479-482
Vertebrata 6: 565-567
obduction
Pakistan, plate tectonics 2: 192-193
ocean circulation *see also* ocean currents
Atlantic Ocean, Quaternary 3: 239-242
Baltic Sea 3: 215-218
Mediterranean Sea, Quaternary 12: 1099-1102
North Sea 3: 215-218
Ocean County New Jersey
Oligocene 1: 55-58
ocean crust *see* oceanic crust
ocean currents
California, Quaternary 12: 1075-1078
Ocean Drilling Program *see also* Leg 116; Leg 129; Leg 133; Leg 138; Leg 144; Leg 150; Leg 165; Leg 167; Leg 170; Leg 171B; Leg 175; Leg 181; Leg 182; Leg 183; Leg 185
Pliocene 1: 67-70
ocean floors *see* black smokers; bottom features; continental margin; seamounts; submarine canyons; submarine volcanoes; trenches
ocean ridges *see* mid-ocean ridges
ocean waves *see* tsunamis
ocean-floor spreading *see* sea-floor spreading
ocean-island basalts
Costa Rica, tectonophysics 2: 127-130
geochemistry 8: 675-678
Mexico, tectonophysics 6: 507-510
Oceania *see* Polynesia
oceanic crust
Antarctic Ocean 3: 235-238
New Zealand 3: 279-282
Pacific Ocean 3: 203-206; 8: 691-694
stratigraphy 8: 735-738
oceanic lithosphere
Atlantic Ocean
geochemistry 3: 243-246
petrology 2: 155-158
tectonophysics 11: 979-982
East Pacific Ocean Islands, tectonophysics 8: 695-698
Indian Ocean
petrology 2: 155-158
tectonophysics 8: 715-718
Polynesia, tectonophysics 8: 695-698
sea-floor spreading 11: 1023-1026
tectonophysics 8: 667-670
oceanography *see* continental margin; continental shelf; continental slope; ocean circulation; ocean floors; ocean waves; sea water; sedimentation; sediments
ODP *see* Ocean Drilling Program
ODP Site 801
stratigraphy 8: 735-738
ODP Site 851
Neogene 3: 207-210
ODP Site 903
mineralogy 4: 371-373
ODP Site 904
mineralogy 4: 371-373
ODP Site 999
Neogene 3: 207-210
ODP Site 1002
Quaternary 1: 71-74
ODP Site 1020
Quaternary 12: 1115-1118
ODP Site 1039
plate tectonics 10: 907-910
ODP Site 1040
plate tectonics 10: 907-910
ODP Site 1043
plate tectonics 10: 907-910
ODP Site 1049
stratigraphy 4: 303-306
ODP Site 1075
Quaternary 3: 195-198
ODP Site 1077
Quaternary 3: 195-198
ODP Site 1119
Quaternary 7: 599-602
ODP Site 1120
Quaternary 7: 599-602
ODP Site 1123
Quaternary 7: 599-602
ODP Site 1125
Quaternary 7: 599-602
ODP Site 1130
geochemistry 7: 647-650
ODP Site 1137
continental drift 3: 235-238
geochemistry 2: 147-150
Ohio
hydrology, Cincinnati Ohio 10: 875-878
OIB *see* ocean-island basalts
oil and gas fields *see* petroleum
oil seeps
Louisiana, continental slope 2: 107-110
Oklahoma
stratigraphy, Arbuckle Mountains 8: 671-674
Old Stone Age *see* Paleolithic
Olduvai Subchron
Israel 10: 887-890
Oligocene
Chile 5: 383-386
Italy 1: 3-6
New Jersey 1: 55-58
Pakistan 2: 192-193
Olimpi Field
geochemistry 11: 1031-1034
olivine
Guatemala, petrology 10: 911-914
olivine tholeiite
California, tectonophysics 7: 631-634
Olympic Peninsula
geomorphology 11: 971-974
Oman
Quaternary 7: 623-626
omphacite
tectonophysics 8: 667-670
oncolites
South Africa, manganese ores 9: 835-838
Onondaga County New York
Quaternary 9: 807-810
Ontario
tectonics, Sudbury igneous complex 8: 747-750
ooze
Atlantic Ocean, stratigraphy 4: 303-306
California 10: 923-926

opal-CT
California, sedimentary petrology 12: 1111-1114
ophiolite
Alaska, petrology 12: 1151-1154
optical mineralogy
Pakistan, Quaternary 3: 287
orbital forcing
Alberta, stratigraphy 6: 523-526
Coral Sea 6: 483-486
Faeroe Islands, Quaternary 12: 1107-1110
Italy, Triassic 12: 1123-1126
Kenya, Quaternary 6: 499-502
Pacific Ocean, Quaternary 12: 1115-1118
Ordos Basin
geomorphology 10: 951-954
Ordovician 9: 763-766
Arenigian, Newfoundland 9: 811-814
Argentina 8: 703-706
Fillmore Formation, Invertebrata 2: 131-134
Ireland 6: 543-546
Kazakhstan 8: 755-758
ore exploration *see* mineral exploration
ore of sedimentation *see* placers
ore-forming fluids
Utah, metal ores 4: 331-334
Oregon
Quaternary 12: 1115-1118
organic carbon *see also* total organic carbon
Pacific Ocean, Quaternary 12: 1115-1118
organic compounds *see also* fullerenes; hydrocarbons; isoprenoids; ketones; total organic carbon
Antarctic Ocean 9: 787-790
geochemistry 6: 535-538
organic mound *see* bioherms
oroclines
Spain, structural geology 11: 991-994
orogenesis *see* orogeny
orogenic belts *see also* foreland basins
Antarctica, tectonics 5: 463-466
Brazil, Proterozoic 4: 319-322
Italy, structural geology 12: 1143-1146
metal ores 6: 539-542
Montana, tectonics 8: 723-726
Switzerland, structural geology 12: 1143-1146
Turkey, structural geology 7: 611-614
orogeny *see also* Antler Orogeny; Appalachian Phase; Asturian Orogeny; Caledonian Orogeny; Grenvillian Orogeny; Hercynian Orogeny; Hudsonian Orogeny; Indosinian Orogeny; Penokean Orogeny; Taconic Orogeny 2: 103-106
Argentina 8: 703-706
China 10: 939-942
Italy 1: 35-38
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
orthosilicates *see* nesosilicates
Os-188/Os-187
Chile, metal ores 5: 467-468
Osagian
Nevada 1: 92-93
osmium
Os-188/Os-187, Chile 5: 467-468
overthrust faults
Newfoundland 9: 811-814
Owens Valley
Quaternary 9: 819-822
Oxfordian
Switzerland 3: 223-226
oxides *see also* cryptomelane; ferrihydrite; goethite; hydroxides; ilmenite; iron oxides; manganese oxides; titanomagnetite
Kazakhstan 3: 263-266
oxygen
Colombia, stratigraphy 2: 159-162
O-18, California 2: 139-142
Permian 1: 7-10
oxyhydroxides
Virginia, sedimentary petrology 9: 843-846
P *see* phosphorus
P-T boundary (age) *see* Permian-Triassic boundary
P-T-t paths
Italy
inclusions 1: 3-6
structural geology 12: 1143-1146
Nepal, structural geology 7: 571-574
Switzerland, structural geology 12: 1143-1146
P-waves
Chile 9: 847-850
Pakistan 7: 651-654
P/T boundary (age) *see* Permian-Triassic boundary
Pacific Ocean *see also* Antarctic Ocean; California Current; East Pacific; El Nino; El Nino Southern Oscillation; Juan de Fuca Plate; Nankaido earthquake 1946; North Pacific; Pacific Plate; South Pacific; West Pacific
lava 2: 163-166
Neogene 3: 207-210
ocean floors
Endeavour Ridge 10: 959-962
Monterey Canyon 11: 1019-1022
petrology, East Pacific Rise 6: 531-534
plate tectonics
Mendocino fracture zone 8: 691-694
Middle America Trench 10: 907-910
Quaternary 7: 599-602; 12: 1115-1118
Middle America Trench 2: 151-154
sea water 6: 487-490
tectonophysics 3: 279-282
Cocos Ridge 2: 127-130
Galapagos Rift 2: 127-130
Louisville Ridge 8: 695-698
Pacific Plate
Basin and Range Province, neotectonics 1: 19-22
East Pacific Ocean Islands, tectonophysics 8: 695-698
Great Basin, neotectonics 1: 19-22
Mexico, tectonophysics 5: 459-462
Pacific Ocean
plate tectonics 8: 691-694
stratigraphy 8: 735-738
Polynesia, tectonophysics 8: 695-698
Pakistan *see also* Indian Plate; Ladakh
Quaternary 3: 287
seismology 7: 651-654
paleo-oceanography 1: 7-10; 4: 295-298
Antarctic Ocean, Quaternary 9: 787-790
Atlantic Ocean 4: 303-306
Quaternary 3: 239-242
Australia 12: 1135-1138
Austria 4: 315-318
California 12: 1135-1138
Canada 12: 1079-1082
Costa Rica, Quaternary 7: 639-642
France, Quaternary 11: 1011-1014
Gulf Coastal Plain 11: 983-986
Indian Ocean, Quaternary 1: 63-66
Iran 11: 995-998
Italy 9: 799-802; 12: 1123-1126
Kazakhstan, sedimentary petrology 8: 755-758
Mediterranean Sea, Quaternary 12: 1099-1102
Namibia 12: 1135-1138
Nevada 8: 671-674
New Zealand 4: 315-318
Oklahoma 8: 671-674
Pacific Ocean 8: 735-738
Quaternary 12: 1115-1118
Panama 3: 207-210
Pyrenees 3: 251-254
Switzerland 3: 223-226
Western Australia, metal ores 8: 687-690
paleoatmosphere 11: 1003-1006
Colombia 2: 159-162
Gulf Coastal Plain 11: 983-986
Iceland 9: 823-826
paleobotany *see* Angiospermae; bacteria; Plantae
Paleocene
Austria 4: 315-318
K-T boundary
Atlantic Ocean 1: 94-96; 4: 303-306
Mexico 3: 231-234; 10: 891-894
North Dakota 1: 39-42
South Dakota 11: 1055-1058
West Indies 1: 94-96
New Zealand 4: 315-318
Washington 1: 51-54
paleoclimatology *see also* C-13/C-12; general circulation models; glaciation; last glacial maximum; Milankovitch theory; O-18/O-16; taiga environment 2: 111-114; 8: 751-754
Africa, Quaternary 1: 83-86; 3: 195-198
Andes, geomorphology 7: 579-582
Antarctic Ocean 1: 67-70
Arizona, Quaternary 5: 399-402
Atlantic Ocean, Quaternary 3: 239-242
Austria 4: 315-318
California, Quaternary 12: 1075-1078
China 10: 955-958
Quaternary 1: 27-30
Greenland, Quaternary 6: 551-554
Gulf Coastal Plain, pedogenesis 10: 943-946
Japan, sedimentary petrology 1: 87-89
Manitoba, Quaternary 8: 743-746
New Mexico, Quaternary 7: 643-646
New Zealand 4: 315-318
Norway, Quaternary 3: 199-202
Pacific Ocean, Quaternary 7: 599-602
Peru, Quaternary 5: 431-434; 7: 603-606
Quaternary 9: 783-786
Queensland Australia, Quaternary 7: 635-638
Switzerland, Quaternary 6: 551-554
Western Interior 4: 363-366
paleoearthquakes *see* paleoseismicity
paleoecology *see also* archaeology; biogeography; biologic evolution 1: 7-10; 2: 111-114; 8: 751-754
Africa, Quaternary 1: 83-86; 3: 195-198
Atlantic Ocean 4: 303-306
Austria 4: 315-318
Canada 10: 903-906; 12: 1079-1082
China 9: 815-818
Quaternary 1: 27-30
Colombia 2: 159-162
Costa Rica, Quaternary 7: 639-642
diagenesis 9: 763-766
Germany 3: 271-274; 5: 469-471
Greenland 4: 351-354
Gulf Coastal Plain 11: 983-986
Hungary 11: 1047-1050
Iceland 9: 823-826
Iran 11: 995-998
Kazakhstan, sedimentary petrology 8: 755-758
Manitoba, Quaternary 8: 743-746
Mediterranean Sea, Quaternary 12: 1099-1102
Mexico 10: 891-894
New York 5: 469-471
New Zealand 4: 315-318
Pacific Ocean, Quaternary 7: 599-602; 12: 1115-1118
South Africa 12: 1147-1150
manganese ores 9: 835-838
United States 10: 903-906
Western Australia 12: 1155-1156
Paleogene *see also* Eocene; Oligocene; Paleocene
France 5: 451-454
paleogeography *see also* basins; biogeography; continental drift; geosynclines; sea-level changes
Alaska 10: 947-950
Argentina, orogeny 8: 703-706
Austria 4: 315-318
British Columbia 2: 99-102

Ireland, geochemistry 6: 543-546
Manitoba, Quaternary 8: 743-746
metal ores 6: 539-542
Nevada 1: 92-93
New Zealand 4: 315-318
Newfoundland, structural geology 9: 811-814
Pacific Ocean 8: 735-738
Panama 3: 207-210
Russian Federation 2: 167-170
South Africa 12: 1147-1150
South Dakota 11: 1055-1058
Switzerland 3: 223-226
Western Interior 4: 363-366
paleolatitude 2: 111-114; 8: 751-754
Alaska 10: 947-950
Gulf Coastal Plain 11: 983-986
Western Interior 4: 363-366
paleolimnology
California, geochemistry 2: 139-142
Manitoba, Quaternary 8: 743-746
New York, Quaternary 9: 807-810
Paleolithic
Israel 10: 887-890
paleomagnetism *see also* magnetic declination; magnetic inclination; magnetic susceptibility; magnetostratigraphy; natural remanent magnetization; paleolatitude; pole positions; sea-floor spreading
Costa Rica, Quaternary 7: 639-642
Mexico, tectonophysics 5: 459-462
Spain, structural geology 11: 991-994
paleontology *see* Brachiopoda; Bryozoa; Conodonta; Foraminifera; fossil man; Graptolithina; ichnofossils; Invertebrata; Pisces; Radiolaria; Trilobita
paleorelief
China 10: 955-958
paleosalinity
Italy 9: 799-802
petrology 11: 1043-1046
Panama 3: 207-210
paleoseismicity
Argentina, neotectonics 7: 619-622
California, Quaternary 9: 819-822
China, Quaternary 11: 1051-1054
Mississippi Valley, Quaternary 5: 419-422
Paleosols
Colombia, Quaternary 6: 519-522
Gulf Coastal Plain, pedogenesis 10: 943-946
Italy, Triassic 12: 1123-1126
sedimentary rocks 3: 247-250
Western Interior, stratigraphy 4: 363-366
paleotopography *see* paleorelief
Paleozoic *see also* Cambrian; Carboniferous; Devonian; Ordovician; Permian; Silurian 8: 751-754
Antarctica 5: 463-466
Antler Orogeny, Nevada 1: 92-93
China 1: 90-91; 7: 663-664; 10: 939-942
Dunkard Group, pedogenesis 10: 943-946
Ellesmerian Orogeny, Canada 12: 1079-1082
Taconic Orogeny, Newfoundland 9: 811-814
Yukon Territory 8: 731-734
palladium 9: 851-854
Palliser Formation 12: 1079-1082
Palmatolepis
Western Australia, stratigraphy 12: 1155-1156
Palmer Peninsula *see* Antarctic Peninsula
palynomorphs
acritarchs, Greenland 4: 351-354
Dinoflagellata
Africa 3: 195-198
Austria 4: 315-318
New Zealand 4: 315-318
pollen
Africa 3: 195-198
Faeroe Islands 12: 1107-1110
Greenland 6: 551-554
New Jersey 7: 615-618
North Dakota 1: 39-42
Pacific Ocean 12: 1115-1118
South Dakota 11: 1055-1058
Switzerland 6: 551-554
Panama
Neogene 3: 207-210
Pangaea
Pacific Ocean, stratigraphy 8: 735-738
Spain, structural geology 11: 991-994
Papua New Guinea
geochemistry 9: 851-854
parasequences
sedimentary petrology 12: 1127-1130
Park County Montana
Quaternary 12: 1095-1098
Park County Wyoming
environmental geology 4: 355-358
Parnassus
Quaternary 8: 707-710
passive margins
Ethiopia, tectonophysics 6: 527-530
Pb-204/Pb-208 *see* Pb-208/Pb-204
Pb-206/Pb-204
Antarctic Ocean, geochemistry 2: 147-150
Atlantic Ocean, geochemistry 3: 243-246
Costa Rica, tectonophysics 2: 127-130
Pb-210
Africa, Quaternary 1: 83-86
Pb/Pb
Antarctic Ocean, continental drift 3: 235-238
China, gold ores 8: 711-714
Pb/Th
Nepal, structural geology 7: 571-574
Pd *see* palladium
peat 3: 247-250
pedogenesis
geomorphology 6: 511-514; 8: 683-686
Gulf Coastal Plain 10: 943-946
Hawaii 6: 563-565
pelecypods *see* Bivalvia
pelite *see* shale
Peninsular Ranges
stratigraphy 6: 491-494
Pennine Alps
structural geology 12: 1143-1146
Pennington County South Dakota
stratigraphy 11: 1055-1058
Pennington Formation
pedogenesis 10: 943-946
Penokean Orogeny
Colorado 11: 1015-1018
Peri-Caspian Depression *see* Caspian Basin
peridotites *see also* dunite; harzburgite; lherzolite
Atlantic Ocean 2: 155-158
tectonophysics 11: 979-982
Indian Ocean 2: 155-158
Japan, geochemistry 4: 323-326
permafrost *see also* tundra
Proterozoic 5: 443-446
permeability coefficient *see* hydraulic conductivity
Permian *see also* Hercynian Orogeny 1: 7-10
Appalachian Phase, structural geology 4: 327-330
China 9: 815-818
Permian-Triassic boundary 4: 359-362
Greenland 4: 351-354
South Africa 12: 1147-1150
Zechstein 5: 387-390
Permian-Triassic boundary 4: 359-362
Greenland 4: 351-354
South Africa 12: 1147-1150
petroleum *see also* petroleum accumulation; petroleum engineering 9: 867-870
Atlantic Ocean 1: 94-96
Germany, stratigraphy 3: 271-274
West Indies 1: 94-96
petroleum accumulation 10: 919-922
petroleum engineering
North Sea, energy sources 10: 915-918
petroleum seepage *see* oil seeps
petrologen *see* kerogen
petrology *see* crystalline rocks; fluid inclusions; igneous rocks; inclusions; intrusions; lava; magmas; metamorphic rocks; metamorphism; metasomatism; volcanism
Phanerozoic *see also* Paleozoic 6: 539-542
phase equilibria *see also* crystal growth; magmas
metal ores 1: 59-62
phengite
Greece, tectonics 5: 395-398
phlogopite
China, faults 4: 339-342
phonolites
Italy 11: 1043-1046
phosphates *see* apatite; monazite; xenotime
phosphorus
China, stratigraphy 9: 815-818
Germany, stratigraphy 5: 469-471
Greenland, geochemistry 9: 859-862
New York, stratigraphy 5: 469-471
Permian 1: 7-10
phreatomagmatism
Antarctica, Quaternary 10: 935-938
phyllosilicates *see* sheet silicates
physical weathering 6: 511-514
Pilbara Block *see also* Warrawoona Group
Precambrian 10: 963-966
Pima County Arizona
Quaternary 5: 399-402
Pinal County Arizona
Quaternary 5: 399-402
Pine Creek Geosyncline
Precambrian 10: 963-966
Pinedale Glaciation
Montana 12: 1095-1098
Pipe Creek Formation
stratigraphy 5: 469-471
Pisces
China, stratigraphy 9: 815-818
Pitkin County Colorado
structural geology 8: 739-742
placers
metal ores 6: 539-542
planar bedding structures *see also* bedding; hummocky cross-stratification; laminations; varves
Mexico, stratigraphy 3: 231-234
planar deformation features
Spain, structural geology 1: 11-14
planetary interiors 2: 103-106
Plantae *see also* algae; Spermatophyta
California, Quaternary 9: 855-858
Greenland, Quaternary 6: 551-554
metasomatism 2: 123-126
Nevada, Quaternary 9: 855-858
Switzerland, Quaternary 6: 551-554
plate boundaries *see also* plate convergence
Basin and Range Province, neotectonics 1: 19-22
Great Basin, neotectonics 1: 19-22
Indian Ocean, tectonophysics 8: 715-718
Italy, structural geology 12: 1143-1146
Mexico, tectonophysics 6: 507-510
New Zealand, plate tectonics 8: 679-682
Pacific Ocean
plate tectonics 8: 691-694
stratigraphy 8: 735-738
Spain, structural geology 11: 991-994
Switzerland, structural geology 12: 1143-1146
plate collision
Argentina, orogeny 8: 703-706
Brazil, Proterozoic 4: 319-322

China
geochemistry 9: 863-866
geomorphology 10: 951-954
tectonophysics 7: 575-578
Costa Rica, tectonophysics 2: 127-130
Iran, plate tectonics 6: 559-562
Ireland, geochemistry 6: 543-546
Italy, structural geology 12: 1143-1146
metal ores 6: 539-542
Newfoundland, structural geology 9: 811-814
Pakistan, petrology 5: 435-438
Switzerland, structural geology 12: 1143-1146
Vietnam, structural geology 3: 211-214
plate convergence
Brazil, Proterozoic 4: 319-322
Costa Rica, plate tectonics 10: 907-910
Himalayas, plate tectonics 9: 791-794
Washington, plate tectonics 5: 379-382
plate margins *see* plate boundaries
plate tectonics *see* accretionary wedges and specific plates; Cascadia subduction zone; continental crust; continental drift; continental margin; crustal thinning; earthquakes; exotic terranes; extension tectonics; fault zones; fore-arc basins; fracture zones; Galapagos Rift; geosynclines; hot spots; island arcs; mantle plumes; melange; obduction; oroclines; passive margins; plate boundaries; plate collision; plates; rift zones; sea-floor spreading; seismotectonics; spreading centers; subduction; subduction zones; suture zones; terranes; transform faults; transpression; trenches; triple junctions; volcanic belts
plateau basalts *see* flood basalts
plateaus
Antarctic Ocean, continental drift 3: 235-238
China
faults 4: 339-342
Neogene 1: 31-34
plates
structural geology 4: 327-330
platinum 9: 851-854
platinum group *see* palladium
Pleistocene 9: 783-786
Africa 3: 195-198
Bandelier Tuff, geochemistry 3: 275-278
Beaumont Clay, pedogenesis 10: 943-946
Bishop Tuff, geochemistry 3: 275-278
California 9: 855-858
China 1: 27-30; 10: 951-954
Colombia 6: 519-522
Coral Sea 6: 483-486
Costa Rica 2: 127-130; 7: 639-642
Eemian, Kenya 6: 499-502
Greenland 1: 71-74
Indian Ocean 1: 63-66
Montana 12: 1095-1098
Nevada 9: 855-858
Olduvai Subchron, Israel 10: 887-890
Pacific Ocean 7: 599-602; 12: 1115-1118
South Australia 10: 899-902
Wisconsinan
Mississippi Valley 5: 419-422
New Jersey 5: 411-414
pleniglacial, last *see* last glacial maximum
plinian-type eruptions
California, geochemistry 3: 275-278
New Mexico, geochemistry 3: 275-278
Pliocene 2: 179-182
Antarctic Ocean 1: 67-70
Costa Rica 2: 127-130
Turkey 7: 611-614
Plumas County California
Quaternary 5: 447-450
plumes
hydrology 7: 655-658
plutonic rocks *see also* gabbros; granites; lamprophyres; syenites; ultramafics
Russian Federation, Jurassic 2: 167-170
plutons
California 12: 1157-1158
Colorado, Proterozoic 11: 1015-1018
Iran, plate tectonics 6: 559-562
Montana, tectonics 8: 723-726
structural geology 8: 727-730
Podocarpus
Quaternary 3: 195-198
Pogonip Group *see* Fillmore Formation
pole positions
Alaska, stratigraphy 10: 947-950
pollen
Africa, Quaternary 3: 195-198
Faeroe Islands, Quaternary 12: 1107-1110
Greenland, Quaternary 6: 551-554
New Jersey, Quaternary 7: 615-618
North Dakota, stratigraphy 1: 39-42
Pacific Ocean, Quaternary 12: 1115-1118
South Dakota, stratigraphy 11: 1055-1058
Switzerland, Quaternary 6: 551-554
pollution *see also* heavy metals 3: 215-218
polymorphism
New Jersey, mineralogy 4: 371-373
Polynesia
tectonophysics, Marquesas Islands 8: 695-698
Polyzoa *see* Bryozoa
porcellanite
California 12: 1111-1114
Porcupine Basin
tectonophysics 7: 587-590
porphyry
Chile, metal ores 5: 383-386
porphyry copper
Chile, metal ores 5: 383-386; 5: 467-468
porphyry molybdenum
Chile, metal ores 5: 383-386
positions, pole *see* pole positions
post-glacial rebound *see* glacial rebound
Postglacial *see* Holocene
postseismic processes
Chile, seismology 9: 847-850
potash
Pyrenees, Mesozoic 3: 251-254
potash feldspar *see* K-feldspar
potassium
France, geochemistry 5: 451-454
potassium feldspar *see* K-feldspar
potassium-argon *see* K/Ar
Pottawattamie County Iowa
environmental geology 12: 1131-1134
pottery *see* artifacts
Pre-Cambrian *see* Precambrian
Preboreal
Russian Federation 11: 999-1002
Precambrian *see also* Archean; upper Precambrian 6: 539-542
Grenvillian Orogeny, structural geology 4: 327-330
Hudsonian Orogeny, Colorado 11: 1015-1018
Northern Territory Australia 10: 963-966
Penokean Orogeny, Colorado 11: 1015-1018
Western Australia 10: 963-966
precession 12: 1123-1126
Precordillera
orogeny 8: 703-706
predation
stratigraphy 2: 111-114; 4: 359-362
preferential flow
France, ground water 4: 335-338
New Mexico, ground water 1: 43-46
preferred orientation
California, sedimentary petrology 12: 1111-1114
primary wave *see* P-waves
Primates *see* Hominidae
Prince Charles Mountains
tectonics 5: 463-466
procaryotes *see* prokaryotes
prograde metamorphism 2: 189-190
programs, computer *see* computer programs
prokaryotes 12: 1119-1122
Proterozoic 4: 327-330; 5: 443-446
Antarctic Ocean 3: 235-238
Australia 12: 1135-1138
Brazil 4: 319-322
California 12: 1135-1138
China 5: 471; 9: 871-872
Colorado 8: 739-742; 11: 1015-1018
Doushantuo Formation 12: 1119-1122
Ediacaran
British Columbia 12: 1091-1094
China 12: 1119-1122
Iran 11: 995-998
Russian Federation 12: 1119-1122
Miette Group 12: 1091-1094
Namibia 12: 1135-1138
Newfoundland 9: 811-814
Northwest Territories 9: 827-830
Nunavut 9: 827-830
Ontario 8: 747-750
Rodinia, Antarctica 5: 463-466
South Africa 9: 835-838
Windermere System 12: 1091-1094
Wyoming 6: 515-518
Protista *see also* Radiolaria
Foraminifera
Africa 3: 195-198
Alberta 6: 523-526
Atlantic Ocean 1: 94-96; 4: 303-306
California 12: 1075-1078
China 9: 815-818
Gulf Coastal Plain 11: 983-986
Mexico 3: 231-234; 10: 891-894
Pacific Ocean 7: 599-602
Panama 3: 207-210
West Indies 1: 94-96
Fusulinidae, China 1: 90-91
Globigerina bulloides, Greenland 1: 71-74
Globigerinoides ruber
Greenland 1: 71-74
Indian Ocean 1: 63-66
Mediterranean Sea 12: 1099-1102
Globigerinoides sacculifer, Atlantic Ocean 3: 239-242
Globorotalia, Atlantic Ocean 3: 239-242
Uvigerina, Mediterranean Sea 12: 1099-1102
Proto-Atlantic Ocean *see* Iapetus
pseudotachylite
Washington, geochronology 1: 51-54
Pteropoda
Atlantic Ocean, Quaternary 3: 239-242
public lands 4: 355-358
pull apart structures *see* boudinage
pumice
Alaska, Quaternary 9: 775-778
California, geochemistry 3: 275-278
Indonesia, Quaternary 4: 347-350
New Mexico, geochemistry 3: 275-278
Puna
neotectonics 7: 619-622
push-pull wave *see* P-waves
Pyrenees
geochemistry, French Pyrenees 5: 451-454
Mesozoic, Spanish Pyrenees 3: 251-254
pyrite
Arizona, diagenesis 1: 47-50
China, gold ores 8: 711-714
geochronology 5: 403-406
metal ores 1: 59-62
metasomatism 2: 123-126

pyroclastic flows
engineering geology 2: 115-118
Indonesia, Quaternary 4: 347-350
Mexico, tectonophysics 5: 459-462
pyroclastics *see* ash falls; hyaloclastite; ignimbrite; pumice; tuff
pyroxene group *see* clinopyroxene
Qiangtang Block
metamorphism 7: 663-664
tectonics 1: 90-91
Qilian Mountains
structural geology 10: 939-942
Qinghai-Xizang Plateau
geomorphology 10: 951-954
Neogene 1: 31-34
structural geology 10: 939-942
Qinling Mountains
structural geology 2: 119-122
quantitative geomorphology
Nepal 5: 415-418
quartz
California, geochemistry 3: 275-278
geochemistry 12: 1067-1070
Japan, seismicity 2: 183-186
New Mexico, geochemistry 3: 275-278
North Sea, energy sources 10: 915-918
South Australia, Quaternary 10: 899-902
quartz sand
Virginia 9: 843-846
quartzites
California, structural geology 4: 307-310
Spain, structural geology 1: 11-14
Quaternary *see also* Holocene; last glacial maximum; Pleistocene 2: 179-182
Arizona 11: 1035-1038
British Columbia 2: 99-102
California 7: 631-634; 10: 879-882
Indonesia 7: 607-610
Ireland 9: 795-798
Jordan 2: 171-174
Norway 3: 199-202
Pakistan 3: 287
Pinedale Glaciation, Montana 12: 1095-1098
Queensland Australia 7: 635-638
Queensland Australia
Quaternary 7: 635-638
radioactive fallout
Iowa, environmental geology 12: 1131-1134
radioactive isotopes *see* Al-26; Ar-40/Ar-39; Be-7; Be-10; C-14; C-14/C-12; Cs-137; Pb-206/Pb-204; Pb-207/Pb-204; Pb-208/Pb-204; Pb-210; Rb-87/Sr-86; Sm-147/Nd-144
radioactive waste 3: 255-258
radioactivity 12: 1143-1146
radiocarbon dating *see* C-14
Radiolaria
Kazakhstan, sedimentary petrology 8: 755-758
New Zealand, tectonophysics 3: 279-282
Pacific Ocean, stratigraphy 8: 735-738
radiolarite 8: 755-758
Rae Province
geochemistry 9: 827-830
rafting, ice *see* ice rafting
rain *see* acid rain
rare earths *see also* lanthanum; samarium; scandium
Atlantic Ocean, petrology 2: 155-158
Greenland, geochemistry 9: 859-862
Indian Ocean, petrology 2: 155-158
Mexico, petrology 6: 531-534
Yukon Territory, geochemistry 8: 731-734
Rb-87/Sr-86
Antarctic Ocean, geochemistry 2: 147-150
Rb/Sr
China, gold ores 8: 711-714
Greece, tectonics 5: 395-398
Russian Federation, geochemistry 3: 267-270
receiver functions
China, tectonophysics 7: 575-578
Recent *see* Holocene
recharge
California, geochemistry 2: 139-142
recurrence interval
California, Quaternary 9: 819-822
China, Quaternary 11: 1051-1054
Peru, Quaternary 5: 431-434
red beds
South Africa
manganese ores 9: 835-838
stratigraphy 12: 1147-1150
Red River Fault
geochemistry 9: 863-866
tectonics 3: 219-222
red rock *see* red beds
Red Sea
tectonophysics 10: 895-898
Red Sea region
tectonophysics 2: 171-174
redbeds *see* red beds
reefs
barrier reefs, Coral Sea 6: 483-486
Reelfoot Rift
Quaternary 2: 175-178; 5: 419-422
rejuvenation head *see* knickpoints
relaxation
Nepal, structural geology 7: 571-574
relief
stratigraphy 2: 179-182
remanent magnetization *see* characteristic remanent magnetization; natural remanent magnetization
remote sensing *see also* ERS; SAR
New Jersey, Quaternary 7: 615-618
Pacific Ocean, hydrology 7: 659-662
Peru, Quaternary 5: 431-434
Renalcis
Western Australia, stratigraphy 12: 1155-1156
Reno Nevada
structural geology 8: 719-722
Reptilia
dinosaurs, North Dakota 1: 39-42
Lystrosaurus, South Africa 12: 1147-1150
Theropoda 6: 565-567
residence time
California, geochemistry 3: 275-278
New Mexico, geochemistry 3: 275-278
resurfacing 5: 407-410
reverse faults
Argentina 7: 619-622
Middle East 10: 927-930
Western Australia 3: 283-286
reverse slip faults *see* thrust faults
rhyacolite *see* sanidine
Rhynchonellida *see also* Rhynchonellidae
Germany, stratigraphy 5: 471
Rhynchonellidae
Germany, stratigraphy 3: 271-274
rhyolites
Alaska, Quaternary 9: 775-778
Nevada, tectonics 6: 475-478
rift zones
Ethiopia, tectonophysics 6: 527-530
faults 5: 455-458
Hawaii, lava 2: 163-166
Mississippi Valley, Quaternary 2: 175-178; 5: 419-422
Red Sea, tectonophysics 10: 895-898
structural geology 4: 327-330
right-lateral faults
California 4: 307-310; 7: 627-630; 11: 975-978
rills
Iowa, environmental geology 12: 1131-1134
ring silicates *see* cordierite
rings, tree *see* tree rings
Rio Grande Rift
ground water 1: 43-46
riparian environment 4: 355-358
risk, seismic *see* seismic risk
Rivera Plate
Mexico, tectonophysics 6: 507-510
rivers *see also* channels 12: 1087-1090
China 10: 951-954
Quaternary 9: 783-786
Roberts Mountain Allochthon *see* Roberts Mountains Allochthon
Roberts Mountains
stratigraphy 8: 671-674
Roberts Mountains Allochthon
stratigraphy 1: 92-93
Roberts Mountains Formation 8: 671-674
rock mechanics
geomorphology 12: 1087-1090
Nevada, faults 5: 439-442
sea-floor spreading 11: 1023-1026
rock slip *see* rockslides
rock varnish 9: 855-858
rockslides
Argentina, neotectonics 7: 619-622
Rocky Mountains
geochemistry, Laramie Mountains 6: 515-518
geomorphology 6: 547-550
mineralogy, Canadian Rocky Mountains 11: 1027-1030
stratigraphy, Canadian Rocky Mountains 12: 1091-1094
structural geology, Sawatch Range 8: 739-742
Rodentia 9: 855-858
Rodinia
Antarctica, tectonics 5: 463-466
Romanche fracture zone
tectonophysics 11: 979-982
Rosario Formation 6: 491-494
Rosroe Formation
geochemistry 6: 543-546
Ross Sea
Eocene 10: 931-934
Rotaliina *see* Buliminacea; Globigerinacea
rotational wave *see* S-waves
rubblerock *see* breccia
rubidium
Rb-87/Sr-86, Antarctic Ocean 2: 147-150
Rudolf (Lake) *see* Lake Turkana
Russian Far East
mineralogy 6: 479-482
Russian Federation
geochemistry
Kamchatka Peninsula 9: 851-854
Yakutia Russian Federation 3: 267-270
Jurassic, Yakutia Russian Federation 2: 167-170
mineralogy, Russian Far East 6: 479-482
sedimentary petrology, Lena River 11: 999-1002
stratigraphy 12: 1119-1122
Russian Pacific region *see* Kamchatka Peninsula
S-32/S-34 *see* S-34/S-32
S-34 6: 555-558
S-34/S-32
Arizona, diagenesis 1: 47-50
Black Sea 6: 555-558
China, stratigraphy 9: 815-818
Indian Ocean, geochemistry 7: 647-650
North Sea 6: 555-558
S-waves
Chile 9: 847-850
Pakistan 7: 651-654
Saguache County Colorado
environmental geology 3: 255-258
Sailor Canyon Formation
tectonics 7: 627-630

Saint Louis Missouri
hydrology 10: 875-878
salt tectonics *see* deformation; diapirism
salt water
Panama, Neogene 3: 207-210
Salzburg State Austria
Paleocene 4: 315-318
samarium
Ireland, geochemistry 6: 543-546
Sm-147/Nd-144, Wyoming 6: 515-518
San Andreas Fault
tectonics 1: 15-18
San Bernardino County California *see also* Barstow California
deformation 11: 975-978
Quaternary 9: 855-858
tectonics 1: 15-18
San Gabriel Mountains
tectonics 1: 15-18
San Juan County Utah
metal ores 4: 331-334
San Juan volcanic field
environmental geology 3: 255-258
San Pedro Valley
Quaternary 5: 399-402
sand
California, Quaternary 10: 879-882
Russian Federation 11: 999-1002
Virginia 9: 843-846
sand volcanoes *see* mud volcanoes
Sandoval County New Mexico
ground water 1: 43-46
sandstone
Alaska, stratigraphy 10: 947-950
Antarctic Ocean, continental drift 3: 235-238
geochemistry 12: 1067-1070
Italy, structural geology 1: 35-38
Japan 1: 87-89
North Sea, energy sources 10: 915-918
Utah, stratigraphy 2: 187-188
sanidine 3: 275-278
Santa Barbara Basin 10: 923-926
Quaternary 12: 1075-1078
Santa Cruz California
Quaternary 10: 879-882
sedimentary petrology 12: 1111-1114
Santa Cruz River
Quaternary 5: 399-402
Sao Francisco Craton
Proterozoic 4: 319-322
SAR
California, deformation 11: 975-978
Turkey, earthquakes 6: 495-498
satellites *see* Europa Satellite; Io Satellite
Saurischia *see* Theropoda
sausage structure *see* boudinage
Sawatch Range
structural geology 8: 739-742
Saxony Germany
silicates 5: 391-394
Scandinavia *see* Norway
scandium
Iran, Cambrian 11: 995-998
Scaphites
South Dakota, stratigraphy 11: 1055-1058
scarps 2: 103-106
schists *see also* blueschist
structural geology 4: 307-310; 12: 1143-1146
schizomycetes *see* bacteria
Schizophyta *see* cyanobacteria
Schuchert Dal Formation
stratigraphy 4: 351-354
schuppen texture *see* imbricate tectonics
Scotland
petrology 4: 311-314
sea water
Iceland 6: 487-490
Western Australia, metal ores 8: 687-690
sea-floor spreading *see also* mid-ocean ridges; spreading centers 11: 1023-1026
Pacific Ocean 3: 203-206
sea-floor trench *see* trenches
sea-level changes *see also* eustacy; transgression
Antarctic Ocean, Pliocene 1: 67-70
California, Quaternary 10: 879-882
Coral Sea 6: 483-486
Costa Rica, Quaternary 7: 639-642
Greenland, Quaternary 1: 71-74
Italy
stratigraphy 9: 799-802
Triassic 12: 1123-1126
Louisiana 10: 883-886
Nevada, stratigraphy 8: 671-674
New Jersey, Quaternary 5: 411-414
Oklahoma, stratigraphy 8: 671-674
Proterozoic 5: 443-446
sedimentary petrology 12: 1127-1130
sea-surface temperature
Austria, Paleocene 4: 315-318
Gulf Coastal Plain, Eocene 11: 983-986
New Zealand, Paleocene 4: 315-318
Pacific Ocean, Quaternary 12: 1115-1118
seamounts
Costa Rica, Quaternary 2: 151-154
seas, epicontinental *see* epicontinental seas
seawater *see* sea water
Sebesi Island
Quaternary 4: 347-350
secondary structures *see* concretions
secondary wave *see* S-waves
sediment load *see* bedload
sediment supply
geomorphology 12: 1087-1090
sediment transport *see also* marine transport; stream transport; turbidity currents 12: 1127-1130
geomorphology 8: 683-686
Louisiana 10: 883-886
New Jersey, Quaternary 7: 615-618
soil mechanics 2: 143-146
sedimentary rocks *see also* chemically precipitated rocks; coal; diagenesis; lithostratigraphy; tempestite 3: 247-250
black shale 5: 469-471
carbonate rocks
Australia 12: 1135-1138
California 12: 1135-1138
France 4: 335-338
Germany 5: 471
Namibia 12: 1135-1138
Nevada 8: 671-674
Newfoundland 9: 811-814
Oklahoma 8: 671-674
Proterozoic 5: 443-446
Switzerland 4: 335-338
chert, Kazakhstan 8: 755-758
clastic rocks
Atlantic Ocean 1: 94-96
Nepal 11: 1007-1010
Spain 6: 503-506
West Indies 1: 94-96
conglomerate
Antarctic Ocean 3: 235-238
China 10: 955-958
Spain 1: 11-14
evaporites, Italy 9: 799-802
Iran, Cambrian 11: 995-998
limestone
China 10: 955-958
Germany 3: 271-274
Greece 8: 707-710
Hungary 11: 1047-1050
paleomagnetism 7: 583-586
Virginia 11: 1027-1030
Yukon Territory 11: 1027-1030
marl
Mexico 3: 231-234
New York 9: 807-810
Switzerland 3: 223-226
micrite 9: 763-766
California 2: 139-142
Canada 12: 1079-1082
Switzerland 3: 223-226
mudstone
California 12: 1111-1114
South Africa 12: 1147-1150
radiolarite, Kazakhstan 8: 755-758
red beds, South Africa 9: 835-838; 12: 1147-1150
sandstone
Alaska 10: 947-950
Antarctic Ocean 3: 235-238
geochemistry 12: 1067-1070
Italy 1: 35-38
Japan 1: 87-89
North Sea 10: 915-918
Utah 2: 187-188
shale
Newfoundland 9: 811-814
Northern Territory Australia 10: 963-966
paleomagnetism 7: 583-586
Virginia 11: 1027-1030
Western Australia 10: 963-966
Yukon Territory 11: 1027-1030
siliceous sinter, Iceland 9: 823-826
South Dakota, stratigraphy 11: 1055-1058
travertine, Greece 8: 707-710
tufa, California 2: 139-142
sedimentary structures
algal mats 12: 1119-1122
bedding 4: 335-338
bedding plane irregularities, Mexico 3: 231-234
bioherms
Germany 3: 271-274
stratigraphy 8: 751-754
bioturbation, California 10: 879-882
clastic dikes, South Dakota 11: 1055-1058
concretions
California 12: 1111-1114
Gulf Coastal Plain 10: 943-946
flame structures, South Dakota 11: 1055-1058
girvanella 9: 763-766
graded bedding, France 11: 1011-1014
hummocky cross-stratification, Japan 1: 87-89
laminations
Africa 1: 83-86
California 10: 923-926
South Africa 12: 1159-1160
oncolites, South Africa 9: 835-838
planar bedding structures, Mexico 3: 231-234
slump structures, South Dakota 11: 1055-1058
stromatolites, British Columbia 12: 1091-1094
varves
Africa 1: 83-86
New York 9: 807-810
sedimentation *see also* bedload; erosion rates; sedimentation rates; stream transport
bioclastic sedimentation
Antarctic Ocean 9: 787-790
California 12: 1075-1078
California, stratigraphy 6: 491-494
coastal sedimentation
California 11: 1019-1022
Indonesia 4: 347-350
Pacific Ocean 7: 659-662
continental margin sedimentation
California 11: 1019-1022; 12: 1075-1078
France 11: 1011-1014
Louisiana 10: 883-886
deep-sea sedimentation, France 11: 1011-1014

deltaic sedimentation, shore features 9: 771-774
detrital sedimentation, Washington 11: 971-974
fluvial sedimentation
Bangladesh 1: 23-26
hydrology 7: 655-658
Russian Federation 11: 999-1002
Washington 11: 971-974
glaciomarine sedimentation
Ireland 9: 795-798
Norway 3: 199-202
marine sedimentation, Louisiana 2: 107-110
Mexico, stratigraphy 6: 491-494
sedimentation rates 5: 427-430
Atlantic Ocean, Quaternary 3: 239-242
France, Quaternary 11: 1011-1014
geomorphology 12: 1071-1074
Louisiana 10: 883-886
sediments *see also* bedload; lithostratigraphy; peat; stream sediments; volcaniclastics
Africa, Quaternary 1: 83-86
alluvium, Peru 5: 431-434
Antarctica, Quaternary 12: 1103-1106
boulders, Montana 12: 1095-1098
California, Quaternary 5: 447-450
clastic sediments 3: 247-250
China 11: 1051-1054
clay, New Mexico 1: 43-46
diamicton
Antarctic Ocean 9: 787-790
Ireland 9: 795-798
Greenland, Quaternary 6: 551-554
Kenya, Quaternary 6: 499-502
marine sediments
Africa 3: 195-198
Atlantic Ocean 3: 239-242; 4: 303-306
Baltic Sea 3: 215-218
Black Sea 6: 555-558
California 10: 923-926; 11: 1019-1022; 12: 1075-1078
Costa Rica 10: 907-910
energy sources 9: 867-870
Faeroe Islands 12: 1107-1110
France 11: 1011-1014
Greenland 1: 71-74
Indian Ocean 1: 63-66; 7: 647-650; 8: 715-718
Japan 4: 323-326
Louisiana 2: 107-110; 10: 883-886
Mediterranean Sea 11: 1031-1034; 12: 1099-1102
New Jersey 4: 371-373
North Sea 3: 215-218; 6: 555-558
Norway 3: 199-202
Pacific Ocean 12: 1115-1118
Panama 3: 207-210
mud 3: 215-218
New Jersey, Quaternary 7: 615-618
New York, Quaternary 9: 807-810
ooze
Atlantic Ocean 4: 303-306
California 10: 923-926
quartz sand, Virginia 9: 843-846
sand
California 10: 879-882
Russian Federation 11: 999-1002
Virginia 9: 843-846
Switzerland, Quaternary 6: 551-554
Taiwan, geologic hazards 9: 831-834
till, Ireland 9: 795-798
Segemon Island
Quaternary 4: 347-350
seismic methods *see also* elastic waves; seismic profiles
tectonophysics 6: 527-530; 8: 715-718
seismic profiles
Antarctic Ocean, Pliocene 1: 67-70
California, tectonics 1: 15-18
China, tectonophysics 7: 575-578
Ireland, tectonophysics 7: 587-590
Washington, plate tectonics 5: 379-382
seismic risk
California, tectonics 1: 15-18
China, Quaternary 11: 1051-1054
Mississippi Valley, Quaternary 5: 419-422
Trinidad and Tobago, plate tectonics 1: 75-78
Venezuela, plate tectonics 1: 75-78
seismic sea waves *see* tsunamis
seismic stratigraphy
Antarctic Ocean, Pliocene 1: 67-70
Louisiana 10: 883-886
seismic surge *see* tsunamis
seismic waves *see* body waves
seismic zoning
Japan
seismicity 2: 183-186
tectonophysics 4: 299-302
seismicity
Arctic Ocean 12: 1139-1142
Japan 2: 183-186
Mississippi Valley, Quaternary 2: 175-178
Pakistan 7: 651-654
seismology *see* crust; earthquakes; elastic waves; mantle; microearthquakes; Mohorovicic discontinuity
seismostratigraphy *see* seismic stratigraphy
seismotectonics 5: 455-458
California, Quaternary 9: 819-822
Mississippi Valley, Quaternary 5: 419-422
plate tectonics 1: 75-78
self-organization
fractures 1: 79-82
petroleum 10: 919-922
Senonian *see* Maestrichtian
sensing, remote *see* remote sensing
sensitive high mass-resolution ion microprobe data *see* SHRIMP data
sequence stratigraphy *see also* parasequences
New Jersey, Oligocene 1: 55-58
shore features 9: 771-774
Utah 2: 187-188
serpentine group *see* antigorite; chrysotile; lizardite
serpentinite
Ireland, tectonophysics 7: 587-590
Setouchi *see* Inland Sea
Sevier orogenic belt
tectonics 8: 723-726
Shaanxi China
geomorphology 10: 951-954
shake wave *see* S-waves
shale
Newfoundland, structural geology 9: 811-814
Northern Territory Australia, Precambrian 10: 963-966
paleomagnetism 7: 583-586
Virginia, mineralogy 11: 1027-1030
Western Australia, Precambrian 10: 963-966
Yukon Territory, mineralogy 11: 1027-1030
Shandong Peninsula
gold ores 8: 711-714
structural geology 2: 119-122
shear wave *see* S-waves
shear zones *see also* mylonites
California
deformation 11: 975-978
Quaternary 9: 819-822
Manitoba, structural geology 9: 767-770
Vietnam, tectonics 3: 219-222
Western Australia, folds 3: 283-286
sheet erosion
Iowa, environmental geology 12: 1131-1134
sheet silicates *see also* chlorite group; clay minerals; mica group; serpentine group
Spain, structural geology 6: 503-506
Shikoku
geochemistry 4: 323-326
seismicity 2: 183-186
shock lamellae *see* planar deformation features
shock metamorphism
China, stratigraphy 9: 815-818
New Jersey, mineralogy 4: 371-373
South Australia, Quaternary 10: 899-902
shock waves
Spain, structural geology 1: 11-14
shore features *see* barrier beaches; deltas; marine terraces
shorelines *see also* coastal sedimentation
Costa Rica, Quaternary 2: 151-154
New Jersey, Quaternary 7: 615-618
shortening, crustal *see* crustal shortening
SHRIMP data
Antarctica, tectonics 5: 463-466
Argentina, orogeny 8: 703-706
Chile, metal ores 5: 383-386
Colorado, Proterozoic 11: 1015-1018
Italy, inclusions 1: 3-6
Precambrian 10: 963-966
Siberia
geochemistry 3: 267-270
sedimentary petrology 11: 999-1002
Siberia-Soviet Far East *see* Russian Far East
SIC (Sudbury igneous complex) *see* Sudbury igneous complex
Sicilia Italy *see* Sicily Italy
Sicily Italy
Mesozoic 3: 251-254
stratigraphy 9: 799-802
siderite
Western Interior, stratigraphy 4: 363-366
Sierra Nevada
geomorphology 8: 759-760
neotectonics 1: 19-22
Quaternary 5: 447-450
structural geology 4: 307-310; 8: 719-722
tectonics 7: 627-630
silica
Africa, Quaternary 1: 83-86
Iceland, Archean 9: 823-826
silica minerals *see* coesite; opal; quartz
silicate melts
Italy, petrology 11: 1043-1046
South Australia, Quaternary 10: 899-902
silicates *see also* chain silicates; framework silicates; orthosilicates; ring silicates; sheet silicates
Germany 5: 391-394
Nepal, hydrogeology 9: 803-806
siliceous sinter
Iceland, Archean 9: 823-826
silicon
Bangladesh, hydrology 1: 23-26
France, geochemistry 5: 451-454
Silurian
Henryhouse Formation 8: 671-674
Ludlovian, China 10: 955-958
Roberts Mountains Formation 8: 671-674
Scotland 4: 311-314
Silver Bow County Montana
tectonics 8: 723-726
Sinian *see* Doushantuo Formation
Siphonodella isosticha
stratigraphy 1: 92-93
Siphonophycus
stratigraphy 12: 1119-1122
Siskiyou County California *see* Mount Shasta
sites, archaeological *see* archaeological sites
Siwalik Group *see* Siwalik System
Siwalik Range
geomorphology 5: 415-418
Siwalik System 1: 31-34
tectonics 11: 1007-1010
Siwaliks *see* Siwalik Range

Skagerrak
ocean circulation 3: 215-218
skarn
Italy 11: 1043-1046
Russian Federation, mineralogy 6: 479-482
SKS-waves
tectonophysics 4: 291-294
Slave Province
tectonophysics 5: 423-426
sliding, gravity *see* gravity sliding
Slope County North Dakota
stratigraphy 1: 39-42
slope stability *see* avalanches; debris flows; landslides
slump structures
South Dakota, stratigraphy 11: 1055-1058
Sm *see* samarium
Sm-147/Nd-144
Wyoming, geochemistry 6: 515-518
Sm/Nd
China, gold ores 8: 711-714
Vietnam, tectonics 3: 219-222
Snake Range
faults 5: 439-442
Soa Basin
Quaternary 7: 607-610
sodium
France, geochemistry 5: 451-454
soft sediment deformation *see* clastic dikes; flame structures; slump structures
software *see* computer programs
soil mechanics *see also* slope stability
geomorphology 8: 683-686
soils *see also* bacteria; geomorphology; land use; pedogenesis
California, Quaternary 10: 879-882
Vertisols, Gulf Coastal Plain 10: 943-946
solar radiation
Archean 11: 1003-1006
Kenya, Quaternary 6: 499-502
sole faults *see* detachment faults
Solemyida
Germany, stratigraphy 3: 271-274
solution features *see* caves; speleothems; stalagmites
Sonora Mexico
tectonophysics 5: 459-462
South Africa
Archean, Transvaal region 12: 1159-1160
manganese ores, Northern Province
South Africa 9: 835-838
stratigraphy 12: 1147-1150
South America *see also* Andes; Argentina; Bolivia; Brazil; Chile; Colombia; Peru; Venezuela
orogeny, Precordillera 8: 703-706
stratigraphy, Amazon Basin 7: 595-598
South American Plate 1: 75-78
South Australia
Quaternary 10: 899-902
South China Block
structural geology 2: 119-122
South Dakota
stratigraphy 11: 1055-1058
South Island
plate tectonics 8: 679-682
South Pacific *see* Southwest Pacific
South Victoria Land *see* Victoria Land
South Vietnam *see* Vietnam
South-West Africa *see* Namibia
Southeast Pacific *see* Louisville Ridge
Southern Africa *see* Barberton greenstone belt; Namibia; South Africa
Southern Europe *see* Greece; Iberian Peninsula; Italy
Southwest Indian Ridge
petrology 2: 155-158
Southwest Pacific *see* Tasman Sea
Southwestern Alaska *see* Aleutian Islands; Katmai; Novarupta; Valley of Ten Thousand Smokes
Soutpansberg Group
manganese ores 9: 835-838
Soviet Far East *see* Russian Far East
Spain
Mesozoic, Spanish Pyrenees 3: 251-254
paleomagnetism, Cantabrian Mountains 7: 583-586
structural geology
Andalusia Spain 6: 503-506
Aragon Spain 1: 11-14
Asturian Arc 11: 991-994
Asturian Massif 11: 991-994
Cantabrian Mountains 11: 991-994
Spanish Pyrenees
Mesozoic 3: 251-254
Spartina alterniflora
New Jersey, Quaternary 7: 615-618
spectra *see* infrared spectra; mass spectra
speleothems *see also* stalagmites
China 1: 27-30
Spermatophyta
Angiospermae, Colombia 2: 159-162
Spartina alterniflora, New Jersey 7: 615-618
Sphaerocodium
stratigraphy 12: 1155-1156
sphalerite
metal ores 1: 59-62
sphene *see* titanite
spherulites
Mexico, stratigraphy 3: 231-234
spontaneous fission-track dating *see* fission-track dating
spreading centers
Arctic Ocean, seismology 12: 1139-1142
Mexico, petrology 6: 531-534
New Zealand, tectonophysics 3: 279-282
Spring Mountains
Quaternary 9: 855-858
springs
California, geochemistry 2: 139-142
hot springs
Argentina 11: 1059-1062
Iceland 9: 823-826
Nepal 9: 803-806
Sr *see* strontium
Sr-86/Rb-87 *see* Rb-87/Sr-86
Sr-87/Sr-86
Antarctic Ocean, geochemistry 2: 147-150
Atlantic Ocean
geochemistry 3: 243-246
stratigraphy 4: 303-306
Bangladesh, hydrology 1: 23-26
China
geochemistry 9: 863-866
stratigraphy 9: 815-818
Coral Sea 6: 483-486
France, geochemistry 5: 451-454
Nepal, hydrogeology 9: 803-806
Russian Federation, geochemistry 3: 267-270
Sr/Rb *see* Rb/Sr
stable isotopes *see* Ar-40/Ar-39; B-11/B-10; C-13/C-12; C-14/C-12; D/H; deuterium; He-3; Nd-144/Nd-143; Ne-21; O-18; O-18/O-16; Os-188/Os-187; Pb-206/Pb-204; Pb-207/ Pb-204; Pb-208/Pb-204; Rb-87/Sr-86; S-34; S-34/S-32; Sm-147/Nd-144
stalagmites 7: 643-646
Sterea Ellas *see* Parnassus
stereochemistry *see* crystal chemistry
Stone Age *see* Paleolithic
stratigraphic boundary *see also* K-T boundary; Permian-Triassic boundary
Alberta, stratigraphy 6: 523-526
China, stratigraphy 5: 471; 9: 871-872
Hungary, stratigraphy 11: 1047-1050
Iran, Cambrian 11: 995-998
stratovolcanoes 3: 255-258
stream flow *see* streamflow
stream gradient
Nepal, geomorphology 5: 415-418
stream sediments
Bangladesh, hydrology 1: 23-26
China, Neogene 1: 31-34
geomorphology 12: 1087-1090
Italy, structural geology 1: 35-38
Montana, environmental geology 4: 355-358
Russian Federation 11: 999-1002
Wyoming, environmental geology 4: 355-358
stream transport *see also* bedload; fluvial sedimentation
Pacific Ocean, hydrology 7: 659-662
streamflow
California, ocean floors 11: 1019-1022
hydrology 7: 655-658
strike-slip faults *see also* transfer faults; transform faults
California 4: 307-310; 7: 627-630
Quaternary 9: 819-822
Manitoba 9: 767-770
Mississippi Valley, Quaternary 5: 419-422
New Zealand, tectonophysics 3: 279-282
Spain 6: 503-506
Turkey, earthquakes 6: 495-498
stromatolites
British Columbia, stratigraphy 12: 1091-1094
Stromatoporoidea
China, stratigraphy 10: 955-958
strontium
Hawaii, pedogenesis 6: 563-565
Rb-87/Sr-86, Antarctic Ocean 2: 147-150
Sr-87/Sr-86
Antarctic Ocean 2: 147-150
Atlantic Ocean 3: 243-246; 4: 303-306
Bangladesh 1: 23-26
China 9: 815-818; 9: 863-866
Coral Sea 6: 483-486
France 5: 451-454
Nepal 9: 803-806
Russian Federation 3: 267-270
structural analysis *see also* boudinage; deformation; foliation; joints; lineation; preferred orientation; shear zones; transpression 4: 327-330
Turkey 7: 611-614
structural basins *see* basins
structural geology *see* deformation; faults; folds; foliation; fractures; geosynclines; isostasy; lineation; neotectonics; orogeny; salt tectonics; tectonics
Subarctic *see* Preboreal
subarctic regions
Russian Federation, sedimentary petrology 11: 999-1002
subduction *see also* obduction; subduction zones
Costa Rica, Quaternary 2: 151-154
Italy
inclusions 1: 3-6
structural geology 12: 1143-1146
Japan, geochemistry 4: 323-326
Mexico
petrology 6: 531-534
tectonophysics 6: 507-510
New Zealand, tectonophysics 3: 279-282
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
Russian Federation, Jurassic 2: 167-170
Switzerland, structural geology 12: 1143-1146
tectonophysics 8: 667-670
subduction zones *see also* fore-arc basins; trenches
California, tectonophysics 7: 631-634
Chile, seismology 9: 847-850
Costa Rica
plate tectonics 10: 907-910
tectonophysics 2: 127-130
Greece, tectonics 5: 395-398
Iran, plate tectonics 6: 559-562

Japan
seismicity 2: 183-186
tectonophysics 4: 299-302
Mediterranean Sea, geochemistry 11: 1031-1034
Pacific Ocean, stratigraphy 8: 735-738
submarine canyons *see also* Monterey Canyon
France, Quaternary 11: 1011-1014
submarine features *see* bottom features
submarine volcanoes
Arctic Ocean, seismology 12: 1139-1142
Hawaii, lava 2: 163-166
Subuku Island
Quaternary 4: 347-350
Sudbury igneous complex
tectonics 8: 747-750
sulfates *see also* anhydrite
Black Sea 6: 555-558
Italy, petrology 11: 1043-1046
North Sea 6: 555-558
sulfides *see also* galena; marcasite; massive sulfide deposits; pyrite; sphalerite
Black Sea 6: 555-558
Indian Ocean, geochemistry 7: 647-650
North Sea 6: 555-558
Pacific Ocean, ocean floors 10: 959-962
sulfur
S-34 6: 555-558
S-34/S-32
Arizona 1: 47-50
Black Sea 6: 555-558
China 9: 815-818
Indian Ocean 7: 647-650
North Sea 6: 555-558
sulphates *see* sulfates
sulphides *see* sulfides
Sulu Terrane
structural geology 2: 119-122
Sumatra
Quaternary 4: 347-350
Summit Greenland *see* GRIP
Sunda Strait
Quaternary 4: 347-350
supercontinents
Brazil, Proterozoic 4: 319-322
structural geology 4: 327-330
Superior Province
structural geology 9: 767-770
surficial geology
New Mexico, structural geology 4: 367-370
surveys *see* geophysical surveys
suspect terranes *see* terranes
suspension current *see* turbidity currents
suture zones
Antarctica, tectonics 5: 463-466
China
structural geology 2: 119-122
tectonics 1: 90-91
geochemistry 9: 827-830
Swiss Alps
crust 2: 189-190
structural geology 12: 1143-1146
Swiss Jura Mountains
stratigraphy 3: 223-226
Switzerland
crust, Swiss Alps 2: 189-190
ground water 4: 335-338
Quaternary 6: 551-554
stratigraphy, Swiss Jura Mountains 3: 223-226
structural geology, Swiss Alps 12: 1143-1146
syenites
Italy 11: 1043-1046
sylvite
Pyrenees, Mesozoic 3: 251-254
symmicton *see* diamicton
Synapsida *see* Therapsida
synclines
California, magmas 12: 1157-1158
Turkey 7: 611-614
synthetic aperture radar *see* SAR
Taconic Orogeny
Newfoundland, structural geology 9: 811-814
taiga environment
Russian Federation, sedimentary petrology 11: 999-1002
Taiwan
geologic hazards 9: 831-834
talus fan *see* alluvial fans
tangential wave *see* S-waves
Tarim Basin
tectonophysics 7: 575-578
Tasman Sea
tectonophysics 3: 203-206
tectogenesis *see* orogeny
tectonic wedges
Andes, structural geology 2: 135-138
faults 9: 839-842
Himalayas, structural geology 2: 135-138
Nepal, tectonics 11: 1007-1010
tectonics *see also* Appalachian Phase; Asturian Orogeny; Brasiliano Orogeny; continental drift; continental margin; crust; crustal shortening; crustal thinning; decollement; deformation; exotic terranes; faults; fold and thrust belts; folds; foreland basins; geosynclines; Hercynian Orogeny; Indosinian Orogeny; isostasy; isostatic rebound; Laramide Orogeny; metamorphic core complexes; miogeosynclines; nappes; neotectonics; oroclines; orogenic belts; orogeny; plate tectonics; rift zones; salt tectonics; shear zones; structural analysis; suture zones; thrust sheets; uplifts 5: 427-430
basement tectonics, Norway 4: 374-376
California 7: 627-630
extension tectonics 5: 455-458
Ethiopia 6: 527-530
Nevada 5: 439-442; 8: 719-722
Turkey 7: 611-614
geomorphology 6: 511-514
Greece 5: 395-398
imbricate tectonics
Argentina 8: 703-706
Norway 4: 374-376
Nevada 6: 475-478
Ontario 8: 747-750
seismotectonics 5: 455-458
California 9: 819-822
Mississippi Valley 5: 419-422
Trinidad and Tobago 1: 75-78
Venezuela 1: 75-78
Western Australia, stratigraphy 12: 1083-1086
tectonite
Manitoba, structural geology 9: 767-770
tectonophysics *see* continental drift; crust; heat flow; isostasy; mantle; Mohorovicic discontinuity; paleomagnetism; plate tectonics; sea-floor spreading
Tempe Terra 5: 427-430
temperature methods *see* heat flow
tempestite
Japan, sedimentary petrology 1: 87-89
Nevada, stratigraphy 1: 92-93
Tennessee *see* Appalachian Basin; Mississippi Embayment; New Madrid region; Pennington Formation; Reelfoot Rift
tephra *see* pyroclastics
tephrochronology
Faeroe Islands, Quaternary 12: 1107-1110
Indian Ocean, Quaternary 1: 63-66
Nevada, structural geology 8: 719-722
Peru, stratigraphy 7: 595-598
Quaternary 9: 783-786
terpenoids *see* isoprenoids
terraces *see also* erosion features; floodplains
Argentina, neotectonics 7: 619-622
Quaternary 9: 783-786
terranes *see also* exotic terranes
Alaska
petrology 12: 1151-1154
stratigraphy 10: 947-950
Argentina, orogeny 8: 703-706
Newfoundland, structural geology 9: 811-814
Pacific Ocean, tectonophysics 3: 203-206
Russian Federation, Jurassic 2: 167-170
Yukon Territory, geochemistry 8: 731-734
terrestrial environment *see* taiga environment
Tertiary *see also* Neogene; Paleogene 8: 751-754
China 10: 951-954
Greenland 9: 859-862
Jordan 2: 171-174
New Mexico 1: 43-46
Tethys
Atlantic Ocean, stratigraphy 4: 303-306
Switzerland, stratigraphy 3: 223-226
Vietnam, structural geology 3: 211-214
Tetrabranchiata *see* Ammonoidea
Tetrapoda *see* Mammalia; Reptilia
Texas *see* Beaumont Clay; Gulf Coastal Plain
Th *see* thorium
Th/U
British Columbia, stratigraphy 2: 99-102
Iran, plate tectonics 6: 559-562
The Himalaya *see* Himalayas
Therapsida *see* Dicynodontia
Theria *see* Eutheria
thermal ionization mass spectra
China, Quaternary 1: 27-30
Mediterranean Sea, geochemistry 11: 1031-1034
thermal springs *see* hot springs
thermal surveys *see* heat flow
thermal waters *see* brines; hot springs
thermochronology
China, structural geology 10: 939-942
thermoluminescence
Arizona, Quaternary 11: 1035-1038
Theropoda 6: 565-567
tholeiite
California, tectonophysics 7: 631-634
thorium
Iran, Cambrian 11: 995-998
thorium-lead *see* Pb/Th
thorium-uranium *see* Th/U
thrust faults *see also* reverse faults; thrust sheets
Mississippi Valley, Quaternary 5: 419-422
Nepal 7: 571-574
hydrogeology 9: 803-806
Nevada, stratigraphy 1: 92-93
Virginia, mineralogy 11: 1027-1030
Washington, plate tectonics 5: 379-382
Yukon Territory, mineralogy 11: 1027-1030
thrust sheets
Italy, structural geology 12: 1143-1146
Nepal, tectonics 11: 1007-1010
Switzerland, structural geology 12: 1143-1146
thrusts and thrusting *see* thrust faults
Tibet China *see* Xizang China
Tibetan Plateau *see* Qinghai-Xizang Plateau
Ticino River
structural geology 1: 35-38
tidal wave *see* tsunamis
till *see also* moraines
Ireland, Quaternary 9: 795-798
TIMS spectra (thermal ionization) *see* thermal ionization mass spectra
titanite
Italy, inclusions 1: 3-6
titanomagnetite
Alaska, Quaternary 9: 775-778
Tohoku
tectonophysics 4: 299-302
tonnage
Chile, metal ores 5: 467-468

tophus *see* tufa
torsion faults *see* wrench faults
total organic carbon
Hungary, stratigraphy 11: 1047-1050
Tourmakeady Group
geochemistry 6: 543-546
Tournaisian 2: 111-114
trace metals
Iceland, sea water 6: 487-490
Trans-Hudsonian Orogeny *see* Hudsonian Orogeny
Trans-Jordan *see* Jordan
transcurrent faults 1: 19-22
transfer faults
Basin and Range Province 1: 19-22
Great Basin 1: 19-22
Ontario 8: 747-750
transform faults
Jordan, tectonophysics 2: 171-174
New Zealand, plate tectonics 8: 679-682
transgression 9: 771-774
transport
petroleum 10: 919-922
transpression
Manitoba, structural geology 9: 767-770
plate tectonics 1: 75-78
transtension 1: 19-22
Transvaal region
Archean 12: 1159-1160
transverse wave *see* S-waves
travertine
Greece, Quaternary 8: 707-710
tree rings
Faeroe Islands, Quaternary 12: 1107-1110
trenches
Washington, plate tectonics 5: 379-382
trenching
California, Quaternary 9: 819-822
China, Quaternary 11: 1051-1054
Mississippi Valley, Quaternary 5: 419-422
Trentino-Alto Adige Italy *see* Latemar Massif
Triassic *see also* Indosinian Orogeny
Bunter, Spain 1: 11-14
China 9: 815-818
Hungary 11: 1047-1050
Italy 12: 1123-1126
Permian-Triassic boundary 4: 359-362
Greenland 4: 351-354
South Africa 12: 1147-1150
Trilobita 10: 903-906
Trinidad and Tobago
plate tectonics, Trinidad 1: 75-78
triple junctions *see* Mendocino fracture zone
Tsinling Mountains *see* Qinling Mountains
tsunamis
Indonesia, Quaternary 4: 347-350
Newfoundland, geologic hazards 10: 967
tufa
California, geochemistry 2: 139-142
tuff *see also* volcaniclastics
California 3: 275-278
Mexico, tectonophysics 5: 459-462
New Mexico, geochemistry 3: 275-278
tuft *see* tufa
Tulare County California
Quaternary 5: 447-450
tundra *see* taiga environment
turbidite *see also* turbidity currents
paleomagnetism 7: 583-586
turbidity currents *see also* submarine canyons
hydrology 7: 655-658
Mexico, stratigraphy 3: 231-234
Turkey
earthquakes, North Anatolian Fault 6: 495-498
structural geology 7: 611-614; 10: 927-930
Turonian
Alberta 6: 523-526
U. S. Rocky Mountains *see* Laramie Mountains; Sawatch Range
U/Pb *see also* Pb/Pb
Antarctica, tectonics 5: 463-466
Argentina, orogeny 8: 703-706
California
stratigraphy 6: 491-494
structural geology 4: 307-310
Chile, metal ores 5: 383-386
China, metamorphism 7: 663-664
Colorado, Proterozoic 11: 1015-1018
Costa Rica, Quaternary 7: 639-642
France, geochemistry 5: 451-454
Iran, plate tectonics 6: 559-562
Mexico, stratigraphy 6: 491-494
Northern Territory Australia, Precambrian 10: 963-966
Vietnam
structural geology 3: 211-214
tectonics 3: 219-222
Western Australia
Precambrian 10: 963-966
stratigraphy 12: 1083-1086
Wyoming, geochemistry 6: 515-518
U/Th *see* Th/U
U/Th/Pb
Colorado, structural geology 8: 739-742
Italy, inclusions 1: 3-6
ultramafics *see* kimberlite; ophiolite; peridotites
ultrametamorphism
Germany, silicates 5: 391-394
Italy 1: 3-6
Pakistan 5: 435-438
ultrapotassic composition
China, geochemistry 9: 863-866
Northwest Territories, geochemistry 9: 827-830
Nunavut, geochemistry 9: 827-830
ultraviolet radiation
Iceland, Archean 9: 823-826
underground water *see* ground water
underthrust faults 2: 135-138
Unionidae
China, Neogene 1: 31-34
United Kingdom *see* Great Britain
United States *see also* the individual states; Atlantic Coastal Plain; Black Hills; Great Basin; Great Plains; Mississippi Valley; Rocky Mountains
Cambrian 10: 903-906
deformation, Mojave Desert 11: 975-978
environmental geology, Yellowstone National Park 4: 355-358
Eocene, Mississippi Embayment 11: 983-986
geochemistry
Illinois Basin 12: 1067-1070
Laramie Mountains 6: 515-518
Mojave Desert 2: 139-142
geomorphology, Idaho Batholith 7: 591-594
ground water, Albuquerque Basin 1: 43-46
hydrology
Mississippi River 10: 875-878
Missouri River 10: 875-878
neotectonics, Walker Lane 1: 19-22
Quaternary 9: 783-786
Amargosa Desert 9: 855-858
Mississippi Embayment 5: 419-422
Mojave Desert 9: 855-858
New Madrid region 2: 175-178; 5: 419-422
Reelfoot Rift 2: 175-178; 5: 419-422
sedimentary petrology, Delmarva Peninsula 9: 843-846
stratigraphy, Book Cliffs 2: 187-188
structural geology 10: 927-930
Albuquerque Basin 4: 367-370
Sawatch Range 8: 739-742
tectonics
Mojave Desert 1: 15-18
Sevier orogenic belt 8: 723-726
tectonophysics 4: 291-294
uplifts *see also* exhumation; isostatic rebound
California, Quaternary 10: 879-882
China, faults 4: 339-342
Costa Rica, Quaternary 2: 151-154
Japan, seismicity 2: 183-186
Nepal, geomorphology 5: 415-418
Panama, Neogene 3: 207-210
Upper Cambrian *see* Mount Simon Sandstone
Upper Carboniferous *see* Namurian
Upper Cretaceous *see* Castlegate Sandstone; Cenomanian; Elkhorn Mountains Volcanics; Fox Hills Formation; Hell Creek Formation; K-T boundary; Rosario Formation; Senonian; Turonian
Upper Devonian *see* Famennian; Frasnian; Palliser Formation
Upper Jurassic *see* Oxfordian
upper Miocene *see* Messinian
Upper Mississippian *see* Pennington Formation
Upper Permian *see* Permian-Triassic boundary; Zechstein
upper Quaternary *see* Pinedale Glaciation
Upper Silurian *see* Ludlovian
Uralinella
stratigraphy 12: 1155-1156
uranium
California, geochemistry 2: 139-142
Iran, Cambrian 11: 995-998
uranium disequilibrium
China, Quaternary 1: 27-30
New Mexico, Quaternary 7: 643-646
Oman, Quaternary 7: 623-626
Ust-Pinega Formation
stratigraphy 12: 1119-1122
Utah *see also* Book Cliffs; Castlegate Sandstone; Fillmore Formation; Pogonip Group
metal ores, San Juan County Utah 4: 331-334
Uvigerina
Mediterranean Sea, Quaternary 12: 1099-1102
Uvigerinidae *see* Uvigerina
Valencia County New Mexico
structural geology 4: 367-370
Valley of Ten Thousand Smokes
geochemistry 11: 1063-1064
valleys
California, geomorphology 8: 759-760
Peru, Quaternary 7: 603-606
vanadium
Iran, Cambrian 11: 995-998
Variscan Orogeny *see* Hercynian Orogeny
Variscides
structural geology 11: 991-994
varves
Africa, Quaternary 1: 83-86
New York, Quaternary 9: 807-810
Velasco Formation
stratigraphy 10: 891-894
Vendian *see* Ediacaran
Venezuela
plate tectonics 1: 75-78
Verdi-Boca Basin
structural geology 8: 719-722
Vertebrata *see* Pisces; Tetrapoda
Vertisols
Gulf Coastal Plain, pedogenesis 10: 943-946
Vesuvius
petrology 11: 1043-1046
Vesuvius Volcano *see* Vesuvius
Victoria Land
Eocene 10: 931-934
Quaternary 10: 935-938
Vietnam *see also* Red River Fault
structural geology 3: 211-214
Virginia
mineralogy 11: 1027-1030

sedimentary petrology, Northampton County Virginia 9: 843-846
Visean 2: 111-114
Germany 3: 271-274
vitrinite
China, structural geology 10: 939-942
Vizcaino Peninsula
petrology 6: 531-534
volatiles
Guatemala, petrology 10: 911-914
volcanic arcs *see* island arcs
volcanic ash
Iceland, sea water 6: 487-490
Peru, stratigraphy 7: 595-598
volcanic belts
Japan, geochemistry 4: 323-326
volcanic earthquakes
Arctic Ocean 12: 1139-1142
volcanic features
volcanic fields
Arizona, Quaternary 11: 1035-1038
Jordan, tectonophysics 2: 171-174
volcanic glass
Atlantic Ocean, geochemistry 3: 243-246
Guatemala 10: 911-914
Hawaii 2: 163-166
volcanic processes *see* volcanism
volcanic risk
Alaska, Quaternary 9: 775-778
Colorado, environmental geology 3: 255-258
Indonesia, Quaternary 4: 347-350
Japan, environmental geology 3: 255-258
Washington, geologic hazards 9: 779-782
volcanic rocks *see also* adakites; andesites; basalts; glasses; melilitite; phonolites; pyroclastics; rhyolites; volcanism
Nevada, structural geology 8: 719-722
volcanic tremors *see* volcanic earthquakes
volcanicity *see* volcanism
volcaniclastics *see also* lapilli
Alaska, stratigraphy 10: 947-950
California, tectonics 7: 627-630
volcanics *see* volcanic rocks
volcanism *see also* eruptions; lava; phreatomagmatism; plinian-type eruptions; submarine volcanoes; volcanic earthquakes; volcanic features; volcanic fields; volcanoes 2: 103-106
China, faults 4: 339-342
East Pacific Ocean Islands, tectonophysics 8: 695-698
Ireland, geochemistry 6: 543-546
Mexico, tectonophysics 6: 507-510
Montana, tectonics 8: 723-726
Polynesia, tectonophysics 8: 695-698
Western Australia, metal ores 8: 687-690
volcanoes *see also* ash falls; Fuego; Katmai; Krakatoa; Mount Rainier; Novarupta; stratovolcanoes; submarine volcanoes; Vesuvius
Antarctica, Quaternary 10: 935-938
Argentina, Quaternary 11: 1059-1062
volume susceptibility (magnetic) *see* magnetic susceptibility
vulcanism *see* volcanism
Walker Lane
neotectonics 1: 19-22
wall rocks
structural geology 8: 727-730
wall-rock alteration
Italy 11: 1043-1046
wallrocks *see* wall rocks
Warrawoona Group 12: 1083-1086
Washington
geochronology, Chelan County Washington 1: 51-54
geologic hazards, Mount Rainier 9: 779-782
geomorphology 11: 971-974
plate tectonics 5: 379-382
Quaternary 12: 1115-1118
Washoe County Nevada *see* Reno Nevada
waste disposal *see* geologic hazards; hazardous waste
water-mineral interface *see* mineral-water interface
water-rock interaction
Antarctic Ocean, Eocene 10: 931-934
Japan, tectonophysics 4: 299-302
Nepal, hydrogeology 9: 803-806
waterways *see* channelization
wave splitting
tectonophysics 4: 291-294
weathering
Atlantic Ocean, stratigraphy 4: 303-306
chemical weathering 6: 511-514
Nepal 9: 803-806
Colombia, Quaternary 6: 519-522
Hawaii, pedogenesis 6: 563-565
physical weathering 6: 511-514
Queensland Australia, Quaternary 7: 635-638
South Australia, Quaternary 10: 899-902
weathering rinds
Washington, geomorphology 11: 971-974
Wegener hypothesis *see* continental drift
West Atlantic
Quaternary 3: 239-242
West Indies *see* Antilles
West Pacific *see* Southwest Pacific
West Pakistan *see* Pakistan
West Virginia *see* Appalachian Basin; Dunkard Group
Western Alps *see* Cottian Alps
Western Australia
folds, Yilgarn Block 3: 283-286
metal ores 8: 687-690
Precambrian, Pilbara Block 10: 963-966
stratigraphy, Canning Basin 12: 1155-1156
Western Canada *see* Alberta; British Columbia; Canadian Rocky Mountains; Manitoba; Northwest Territories; Yukon Territory
Western Canada Sedimentary Basin
stratigraphy 12: 1079-1082
Western Europe *see* Cottian Alps; France; Iceland; Ireland; Netherlands; Scandinavia; United Kingdom
Western Interior
stratigraphy, Western Interior Seaway 4: 363-366; 11: 1055-1058
Western Interior Seaway
stratigraphy 4: 363-366; 11: 1055-1058
Wexford Ireland
Quaternary 9: 795-798
White Pine County Nevada
faults 5: 439-442
tectonics 6: 475-478
White-Inyo Range *see* Inyo Mountains
Whittier Fault
tectonics 1: 15-18
Wicklow Ireland
Quaternary 9: 795-798
Wildman Siltstone
Precambrian 10: 963-966
Windermere System 12: 1091-1094
Wisconsin *see* Lake Michigan; Mount Simon Sandstone
Wisconsinan
Mississippi Valley 5: 419-422
New Jersey 5: 411-414
Wodehouseia spinata
stratigraphy 11: 1055-1058
Wordie Creek Formation
stratigraphy 4: 351-354
Wrangellia
Alaska, stratigraphy 10: 947-950
wrench faults 1: 75-78
Wyoming
environmental geology, Park County Wyoming 4: 355-358
geochemistry, Laramie County Wyoming 6: 515-518
xanthosiderite *see* goethite
xenoliths
France, geochemistry 5: 451-454
Papua New Guinea, geochemistry 9: 851-854
Russian Federation, geochemistry 9: 851-854
Scotland 4: 311-314
xenotime 10: 963-966
Xiaowaitoushan Member
stratigraphy 9: 871-872
Xibiehe Formation
stratigraphy 10: 955-958
Xinjiang China
tectonophysics, Tarim Basin 7: 575-578
Xizang China
faults 4: 339-342
geochemistry 9: 863-866
metamorphism 7: 663-664
tectonics 1: 90-91
tectonophysics 7: 575-578
Xizang Plateau *see* Qinghai-Xizang Plateau
Yakutia Russian Federation
geochemistry 3: 267-270
Jurassic 2: 167-170
Yangtze Plate
Vietnam, tectonics 3: 219-222
Yangtze Platform
geochemistry 9: 863-866
stratigraphy 5: 471; 9: 871-872
Yellow River, China *see* Huang He
Yellowstone Hot Spot
tectonophysics 4: 291-294
Yellowstone National Park
environmental geology 4: 355-358
Yellowstone National Park County Montana
environmental geology 4: 355-358
Yilgarn Block
folds 3: 283-286
Yosemite National Park
geomorphology 8: 759-760
Yukon Territory *see also* Yukon-Tanana Terrane
mineralogy 11: 1027-1030
Yukon-Tanana Terrane
geochemistry 8: 731-734
Yunnan China *see also* Yangtze Platform
geochemistry, Ailao Shan 9: 863-866
Zaire River *see* Congo River
Zechstein 5: 387-390
Zhejiang China
stratigraphy 9: 815-818
zinc blende *see* sphalerite
zircon
Antarctic Ocean, continental drift 3: 235-238
Antarctica, tectonics 5: 463-466
Argentina, orogeny 8: 703-706
California
stratigraphy 6: 491-494
structural geology 4: 307-310
Chile, metal ores 5: 383-386
Colorado, Proterozoic 11: 1015-1018
France, geochemistry 5: 451-454
Indonesia, Quaternary 7: 607-610
Italy, structural geology 1: 35-38
Kazakhstan 3: 263-266
Mexico, stratigraphy 6: 491-494
New Jersey 4: 371-373
Vietnam
structural geology 3: 211-214
tectonics 3: 219-222
zirconium
Ireland, geochemistry 6: 543-546

Geology Author Index
Volume 29

Abratis, Michael 2:127-130
Adams, D. G. 9:823-826
Adams, Erwin W. 10:883-886
Adatte, Thierry 1:94-96
Adrain, Jonathan M. 10:903-906
Agashev, A. M. 3:267-270
Agterberg, Frederik P. 6:523-526
Aguillon-Robles, Alfredo 6:531-534
Aiello, Ivano W. 12:1111-1114
Aiken, C. L. V. 1:19-22
Albertz, Markus 8:727-730
Albrecht, Pierre 9:799-802
Alegret, Laia 3:231-234
Alegret, Laia 10:891-894
Alexander, I. 6:483-486
Alkmim, Fernando F. 4:319-322
Allen, Cameron R. 1:59-62
Almogi-Labin, Ahuva 12:1099-1102
Alvarez, Walter 1:94-96
Ambeh, William B. 1:75-78
Amundson, Ronald 2:159-162
Andersen, David W. 12:1157-1158
Andersen, Nils 9:799-802
Andersen, Torgeir B. 4:374-376
Anderson, R. S. 8:759-760
Anderson, R. S. 10:879-882
Anderson, Ross 9:867-870
Anderson, S. P. 8:759-760
Anderson, Suzanne P. 9:803-806
Anderson, T. W. 8:743-746
Andres, M. S. 6:483-486
Andresen, Camilla S. 12:1107-1110
Antretter, M. 2:147-150
Antretter, M. 3:235-238
Arenillas, Ignacio 3:231-234
Arens, Nan Crystal 2:159-162
Armbruster, John 7:651-654
Arndt, N. 2:147-150
Arndt, N. 3:235-238
Arrowsmith, J Ramon 11:1051-1054
Arthur, Michael A. 1:7-10
Arz, Helge W. 3:239-242
Arz, Jose A. 3:231-234
Asmerom, Yemane 7:639-642
Asmerom, Yemane 7:643-646
Aspler, Lawrence B. 9:827-830
Augustinus, P. C. 12:1103-1106
Axen, Gary J. 6:559-562
Ayora, C. 3:251-254
Aziz, Fachroel 7:607-610
Bakharev, Arnold 2:167-170
Balco, Greg 7:579-582
Baldo, E. 8:703-706
Ballard, Julian R. 5:383-386
Banerdt, W. Bruce 5:427-430
Bannister, Stephen 8:679-682
Bar-Matthews, Miryam 12:1099-1102
Barling, J. 3:235-238
Barling, Jane 2:147-150
Barrick, Reese E. 6:565-567
Barron, John 12:1115-1118
Barry, James P. 11:1019-1022
Barry, Sylvia L. 1:83-86
Bart, P. J. 1:67-70
Barth, Andrew P. 4:307-310
Bartolini, Annachiara 8:735-738
Beaudoin, Bruce 7:651-654
Becker, Mona L. 2:139-142
Bee, Bhavani 2:151-154
Behrens, Anke 9:799-802
Beland, Peter E. 11:971-974
Bell, J. M. 6:515-518
Bellon, Herve 6:531-534
Bendick, R. 9:791-794
Benn, K. 8:747-750
Benoit, Mathieu 6:531-534
Berger, Alfons 12:1143-1146
Bermudez, Adriana 11:1059-1062
Bernasconi, Stefano M. 7:647-650
Bernasconi, Stefano M. 9:799-802
Bernet, Matthias 1:35-38
Bernhard, Joan M. 10:923-926
Bernstein, Stefan 9:859-862
Betcher, R. N. 8:743-746
Beukes, Nicolas J. 9:835-838
Bezenek, Sandra 6:479-482
Bice, Karen L. 1:7-10
Bickford, M. E. 11:1015-1018
Biderkab, Ali B. 9:867-870
Bilham, R. 9:791-794
Bilham, Roger 1:75-78
Bjorck, Svante 12:1107-1110
Bjorlykke, Knut 2:189-190
Blachere, Jean R. 6:563-565
Black, David E. 12:1075-1078
Blichert-Toft, Janne 2:192-193
Boehm, F. 2:147-150
Boehm, F. 3:235-238
Boger, S. D. 5:463-466
Bogue, S. W. 2:99-102
Bohnenstiehl, D. R. 12:1139-1142
Bonatti, Enrico 11:979-982
Bonneville, Alain 8:695-698
Bonniwell, E. Chris 12:1131-1134
Bons, Paul D. 10:919-922
Borre, M. 2:147-150
Borre, M. 3:235-238
Bottcher, Michael E. 7:647-650
Bottrell, S. H. 9:823-826
Bourgois, Jacques 6:531-534
Bowring, Samuel 3:235-238
Braathen, Alvar 4:374-376
Braga, J. C. 6:483-486
Braithwaite, C. J. R. 6:483-486
Brandon, Mark T. 1:35-38
Brantley, Susan L. 6:535-538
Brauhart, Carl W. 8:687-690
Braun, Jean 8:683-686
Brien, Dianne L. 9:779-782
Briggs, Derek E. G. 2:123-126
Brinkhuis, Henk 4:315-318
Bristow, Charles 3:211-214
Brock, Cyndi 1:47-50
Brock, Fiona 2:123-126
Bronto, Sutikno 4:347-350
Brook, Edward J. 12:1095-1098
Brooks, C. Kent 9:859-862
Brunelli, Daniele 11:979-982
Budd, Ann F. 7:639-642
Buhay, W. M. 8:743-746
Bull, J. M. 8:715-718
Bullen, Thomas D. 6:535-538
Bullen, Thomas D. 8:699-702
Burbidge, S. M. 8:743-746
Burgass, Rod W. 9:867-870
Burger, Richard L. 7:603-606
Burgess, Peter M. 12:1127-1130
Burgette, Reed 2:151-154
Burnett, Adam W. 9:807-810
Burns, Stephen J. 7:623-626
Burton, Bradford R. 8:723-726
Burton, Emily 2:151-154
Butler, Ian B. 10:923-926
Butler, Jessica 7:615-618
Bydaev, D. A. 3:267-270
Calmus, Thierry 6:531-534
Campbell, Ian H. 5:383-386
Campbell, Kenneth E. 7:595-598
Canfield, Donald E. 6:555-558
Cannat, Mathilde 2:155-158
Capo, Rosemary C. 6:563-565
Carey, Steven 4:347-350
Carter, Andrew 3:211-214
Cartwright, Ian 3:243-246
Casey, M. 6:527-530
Casquet, C. 8:703-706
Catania, Ginny 3:259-262
Catlos, Elizabeth J. 7:571-574
Cedillo-Pardo, Esteban 1:94-96
Cendon, D. I. 3:251-254
Cerling, Thure E. 11:1035-1038
Chadwick, Oliver A. 6:563-565
Chamberlain, J. A., Jr. 11:1055-1058
Chamberlain, K. R. 6:515-518
Chan, Marjorie A. 4:331-334
Chan, Yvonne 1:83-86
Chanton, J. 8:707-710
Chappell, John 8:683-686
Chavagnac, Valerie 2:192-193
Chave, Alan D. 5:423-426
Chavez, Francisco P. 11:1019-1022
Chen, Rong-Yuh 7:575-578
Chen, She Fa 3:283-286
Chen, Zhensheng 12:1067-1070
Chen, Zhongqiang 9:815-818
Chen Jie 10:939-942
Chen Zhengle 11:1051-1054
Cheng, Li-Hsin 9:831-834
Chertkoff, Darren G. 11:1063-1064
Chery, Jean 5:439-442
Chiarenzelli, Jeffrey R. 9:827-830
Childs, Cyril W. 8:699-702
Chin, Chi-Van 9:831-834
Christie-Blick, Nicholas 1:55-58
Christie-Blick, Nicholas 5:443-446
Christie-Blick, Nicholas 12:1135-1138
Chung, Sun-Lin 3:219-222
Claeys, Philippe 1:94-96
Clark, Peter U. 12:1095-1098
Clayton, James L. 7:591-594
Cleland, Carol E. 11:987-990
Clement, Amy 7:603-606
Clennell, M. Ben 9:867-870
Clift, Peter D. 6:543-546
Clifton, Amy E. 5:455-458
Clouard, Valerie 8:695-698
Cockbain, Anthony E. 12:1155-1156
Coffin, M. 2:147-150
Coffin, Millard F. 3:235-238
Cokendolpher, James C. 7:643-646
Cole, Jennifer M. 2:139-142
Colgan, Patrick M. 11:1039-1042
Colhoun, E. A. 12:1103-1106
Collerson, Kenneth D. 1:27-30
Collettini, Cristiano 10:927-930
Conley, Daniel 12:1107-1110
Cooke, Jennifer 2:151-154
Coombs, Michelle L. 9:775-778
Cooper, M. J. 6:483-486
Cosca, Michael 2:192-193
Cotten, Joseph 6:531-534
Cousens, Brian L. 9:827-830
Cowgill, Eric 11:1051-1054
Cox, Randel Tom 5:419-422
Coxall, H. 2:147-150
Coxall, H. 3:235-238
Crampe, Frederic 11:975-978
Crick, Rex E. 7:583-586
Criss, Robert E. 10:875-878
Crouch, Erica M. 4:315-318
Crowe, Douglas E. 6:479-482
Cutler, Paul M. 11:1039-1042
Dallai, Luigi 10:931-934
Damasceno, D. 3:235-238
Damasceno, Dimitri 2:147-150
Damuth, J. 2:147-150
Damuth, J. 3:235-238
Danelian, Taniel 8:755-758
Davidson, Garry J. 8:687-690
Davies, Kevin L. 2:123-126
Davies, P. J. 6:483-486
Davis, Michael G. 2:163-166
de Boer, J. Z. 8:707-710
de Oliveira, Diogenes C. 5:403-406
de Rafelis, Marc 3:223-226
de Sigoyer, Julia 2:192-193
de Silva, Shanaka 11:1063-1064
De Zanche, Vittorio 12:1123-1126
DeCelles, P. C. 2:135-138
DeCelles, P. G. 2:135-138
Defant, Marc J. 9:851-854
DeFreitas, Debra A. 2:107-110
Deino, Alan 6:499-502
Delaney, John R. 10:959-962
Delius, H. 2:147-150
Delius, H. 3:235-238
Delpino, Daniel 11:1059-1062
Demeny, Attila 11:1047-1050
DeMets, Charles 1:75-78
Derry, Louis A. 9:803-806
Desmarais, Emily K. 3:255-258
Dethier, David P. 9:783-786
Dettman, David L. 1:31-34
Deyhle, Annette 11:1031-1034
Dickerson, R. M. 3:263-266
Dietl, Gregory P. 2:111-114
Dietrich, William E. 2:143-146
Dietrich, William E. 12:1087-1090
Dinh Van Toan 3:219-222
Dixon, Timothy H. 1:75-78
Dobrzhinetskaya, L. F. 3:263-266
Dockery, David T., III 11:983-986
Dombard, Andrew J. 2:103-106
Donald, Ravin 1:47-50
Donaldson, J. Allan 9:827-830
Donnelly, Jeffrey P. 7:615-618
Donnelly-Nolan, Julie 7:631-634
Donner, B. 3:195-198
Doose, H. 1:63-66
Dowsett, H. J. 1:71-74
Draut, Amy E. 6:543-546
Dreher, Scott T. 11:1063-1064
Drieberg, Susan L. 8:687-690
Driese, Steven G. 10:943-946
Droop, G. T. R. 4:311-314
Dunbar, N. W. 3:275-278
Duncan, Catherine Schuur 5:411-414
Duncan, R. 2:147-150
Duncan, R. 3:235-238
Duncan, Robert A. 2:179-182
Dupont, L. M. 3:195-198
Duyster, Johannes 5:391-394
Ebinger, C. J. 6:527-530
Edmond, John M. 11:999-1002
Edwards, Dianne 2:123-126
Edwards, M. H. 12:1139-1142
Egger, Hans 4:315-318
Eichelberger, John C. 11:1063-1064
Eigenbrode, Jennifer L. 11:1003-1006
El Hassani, Ahmed 7:583-586
Elderfield, H. 6:483-486
Ellwood, Brooks B. 7:583-586
Elmore, David 12:1095-1098
Emeis, K. 1:63-66
Engi, Martin 12:1143-1146
Epstein, Jack B. 6:547-550
Eriksson, Kenneth A. 12:1159-1160
Erlenkeuser, H. 1:63-66
Ernstson, Kord 1:11-14
Escartin, J. 11:1023-1026

Evans, B. 11:1023-1026
Evans, David J. A. 9:795-798
Evans, Jeffrey 9:787-790
Evans, Matthew J. 9:803-806
Evans, Rob L. 5:423-426
Evensen, Norman M. 5:403-406
Evenson, Edward B. 6:547-550
Fabretti, Paola 11:979-982
Fahey, Patrick L. 6:475-478
Fallick, Anthony E. 10:915-918
Fanning, C. M. 8:703-706
Fanning, C. Mark 5:463-466
Fanning, C. Mark 6:491-494
Farley, K. A. 2:99-102
Faulkner, Daniel R. 6:503-506
Faunes, Alejandro 5:383-386
Faure, Michel 2:119-122
Feng, Yuexing 7:635-638
Fenton, Cassandra R. 11:1035-1038
Ferguson, Ian J. 5:423-426
Ferguson, J. F. 1:19-22
Ferrari, Luca 6:507-510
Finkel, R. C. 10:879-882
Finkel, Robert C. 5:447-450
Finkel, Robert C. 6:511-514
Finkel, Robert C. 7:591-594
Fisher, Donald 2:151-154
Fishman, Neil S. 12:1067-1070
Fleitmann, Dominik 7:623-626
Fletcher, Ian R. 10:963-966
Flueh, Ernst 5:379-382
Fomin, A. S. 3:267-270
Fonseca, Marco A. 4:319-322
Forbes, D. L. 8:743-746
Forman, Steven L. 11:1051-1054
Frailey, Carl D. 7:595-598
Francalanci, Lorella 6:507-510
France-Lanord, C. 1:23-26
France-Lanord, C. 9:803-806
France-Lanord, C. 11:1007-1010
Freeman, Katherine H. 11:1003-1006
Frey, Frederick 3:235-238
Frey, Frederick A. 2:147-150
Fricke, Henry 6:565-567
Frogner, Paul 6:487-490
Frost, B. R. 6:515-518
Frost, C. D. 6:515-518
Fuis, G. S. 1:15-18
Fujita, Kazuya 2:167-170
Fulignati, Paolo 11:1043-1046
Fullagar, Paul D. 4:303-306
Furbish, David Jon 11:971-974
Gaina, Carmen 3:203-206
Galindo, C. 8:703-706
Galy, Albert 1:23-26
Galy, Albert 11:1007-1010
Gans, Phillip B. 6:475-478
Gao Rui 7:575-578
Garcia, Arturo Villanueva 7:619-622
Garcia, Michael O. 2:163-166
Garcia-Alcalde F., J. L. 7:583-586
Garcia-Hernandez, Jesus 1:94-96
Gardner, James E. 9:775-778
Gardner, Thomas 2:151-154
Gardoll, S. 6:539-542
Garrison, Robert E. 12:1111-1114
Garver, John I. 1:35-38
Gastil, R. Gordon 6:491-494
Gehrels, George E. 4:307-310
George, Annette D. 10:939-942
Gerhardt, S. 3:239-242
Gessner, Klaus 7:611-614
Getty, Stephen R. 7:639-642
Ghebreab, Woldai 10:895-898
Ghezzo, Claudio 10:931-934
Gibson, C. 8:743-746
Gilmour, M. A. 6:483-486
Gingele, Franz X. 3:215-218
Girty, Gary H. 7:627-630
Gischler, Eberhard 3:271-274
Gischler, Eberhard 5:471
Gislason, Sigurdur Reynir 6:487-490
Glass, B. P. 4:371-373
Godfrey, N. J. 1:15-18
Goff, John A. 5:411-414
Goldfarb, R. J. 6:539-542
Goldstein, Paul S. 5:431-434
Gomez, Jose Sosa 7:619-622
Gong Guohong 6:563-565
Gonzalez, Luis 4:363-366
Goodwin, Laurel B. 1:43-46
Gore, D. B. 12:1103-1106
Grajales-Nishimura, J. M. 1:94-96
Granger, Darryl E. 5:447-450
Granger, Darryl E. 6:511-514
Granger, Darryl E. 7:591-594
Grasse, Scott W. 4:307-310
Grauch, V. J. S. 4:367-370
Green, H. W., II 3:263-266
Green, H. W., II 8:667-670
Greenfield, John E. 3:283-286
Grimes, Stephen T. 2:123-126
Grollimund, Balz 2:175-178
Grossman, Ethan L. 11:983-986
Grove, Marty 6:491-494
Grove, Marty 6:559-562
Grove, Timothy L. 7:631-634
Groves, D. I. 6:539-542
Groves, David I. 8:687-690
Guan Ye 7:575-578
Guensburg, Thomas E. 2:131-134
Guerrero, Javier 2:159-162
Guillot, Stephane 2:192-193
Gulick, Sean P. S. 8:691-694
Gungor, Talip 7:611-614
Gutscher, Marc-Andre 5:379-382
Gutzmer, Jens 9:835-838
Haas, Janos 11:1047-1050
Habicht, Kirsten S. 6:555-558
Haines, Peter W. 10:899-902
Hale, J. R. 8:707-710
Hall, Chris M. 1:51-54
Hall, Chris M. 4:331-334
Hamidullah, Seyd 1:31-34
Hammouda, T. 5:451-454
Hansen, David Lundbek 3:203-206
Hanson, Gilbert N. 2:139-142
Hardie, Lawrence A. 12:1123-1126
Hardyman, R. F. 1:19-22
Hare, J. L. 1:19-22
Harlavan, Yehudit 2:171-174
Harris, James B. 5:419-422
Harris, Nigel B. W. 4:339-342
Harrison, T. Mark 7:571-574
Harte, B. 4:311-314
Hasler, Richard W. 6:475-478
Hassanzadeh, Jamshid 6:559-562
Haszeldine, R. Stuart 10:915-918
Haug, Gerald H. 3:207-210
Haupt, Bernd J. 4:295-298
Haynes, C. Vance 5:399-402
Hayward, Bruce W. 7:599-602
Heilmann-Clausen, Claus 4:315-318
Heimsath, Arjun M. 8:683-686
Heinemeier, Jan 12:1107-1110
Heizler, Matt 7:595-598
Helgason, Johann 2:179-182
Heller, Paul L. 11:971-974
Henderson, P. J. 8:743-746
Henry, Christopher D. 8:719-722
Hensley, Scott 11:975-978
Henstock, Timothy J. 8:691-694
Herbert, Timothy 12:1115-1118
Herman, Scott W. 11:1059-1062
Hermann, Jorg 1:3-6
Hermanns, Reginald L. 7:619-622
Hetenyi, Magdolna 11:1047-1050
Hetzel, Ralf 7:611-614
Heusser, Linda 12:1115-1118
Hill, Barbara M. 11:1015-1018
Hiltl, Michael 1:11-14
Hinnov, Linda A. 12:1123-1126
Hirth, G. 11:1023-1026
Hobbs, Douglas 7:607-610
Hocking, Roger M. 12:1155-1156
Hoffman, Nick 5:427-430
Hofmann, A. 1:63-66
Hofmann, Hans J. 12:1091-1094
Hollander, David J. 5:469-471
Hollis, Chris 3:279-282
Horton, Brian K. 8:723-726
Hotinski, Roberta M. 1:7-10
Hu Kai 1:27-30
Huber, Brian T. 4:303-306
Hudson, T. L. 12:1151-1154
Huh, Youngsook 11:999-1002
Humphrey, Neil F. 11:971-974
Humphreys, Eugene D. 4:291-294
Husen, Stephan 9:847-850
Huston, David L. 8:687-690
Huyghe, Pascale 11:1007-1010
Hynek, Brian M. 5:407-410
Ibrahim, Khalil 2:171-174
Ignatiev, Alexander 6:479-482
Ilani, Shimon 2:171-174
Imran, Jasim 7:655-658
Ingle, Stephanie 2:147-150
Ingle, Stephanie 3:235-238
Inokuchi, H. 2:147-150
Inokuchi, H. 3:235-238
Ishigaki, Asako 1:87-89
Ito, Makoto 1:87-89
Iverson, Richard M. 2:115-118
Jahren, A. Hope 2:159-162
Jan, M. Q. 5:435-438
Jannett, Patricia A. 11:1055-1058
Jansma, Pamela 1:75-78
Jarrett, C. A. 8:743-746
Jeanne, Richard A. 6:475-478
Jenkins, Richard J. F. 10:899-902
Jercinovic, Michael J. 8:739-742
Jewell, Paul W. 1:92-93
Ji Hongbing 6:563-565
Jiang, Dazhi 9:767-770
Jin, S. 8:667-670
Jin, Z. M. 8:667-670
Johnsen, Sigfus J. 12:1107-1110
Johnson, Christopher 7:611-614
Johnson, Kenneth S. 11:1019-1022
Johnson, Kirk R. 1:39-42
Johnson, Markes E. 10:955-958
Johnson, Scott E. 8:727-730
Johnson, Thomas C. 1:83-86
Jones, Alan G. 5:423-426
Jouanneau, J. M. 11:1011-1014
Kaiho, Kunio 9:815-818
Kajiwara, Yoshimichi 9:815-818
Kalakay, Thomas J. 8:723-726
Kamenetsky, Vadim S. 3:243-246
Kamenetsky, Vadim S. 11:1043-1046
Kao, Honn 7:575-578
Kaplan, M. R. 4:343-346
Kapp, Paul 1:90-91
Kapp, Paul 7:663-664
Kargel, Jeffrey S. 5:427-430
Karl, S. M. 12:1151-1154
Karlstrom, Karl E. 8:739-742
Kassem, Ahmed 7:655-658
Kasting, James F. 11:1003-1006
Kastner, Miriam 12:1111-1114
Kawahata, Hodaka 9:815-818
Kay, R. L. F. 6:483-486
Keays, R. R. 5:467-468
Kehrwald, Natalie 2:151-154
Keller, Gerta 1:94-96
Kelley, Deborah S. 10:959-962
Kelley, Patricia H. 2:111-114
Kelley, Simon 4:339-342
Kelley, Simon P. 10:899-902
Kennedy, L. A. 11:1027-1030
Kennedy, Martin J. 5:443-446
Kennedy, Martin J. 12:1135-1138
Kennicutt, Mahlon C., II 2:107-110
Kepezhinskas, Pavel 9:851-854
Kesler, Stephen E. 1:59-62
Keszthelyi, L. 2:147-150
Keszthelyi, L. 3:235-238
Khan, M. A. 5:435-438
Kiessling, Wolfgang 8:751-754
Kimbrough, David L. 6:491-494
Kimura, Hiroto 11:995-998
King, J. W. 8:743-746
King, John G. 7:591-594
Kinny, Peter D. 3:211-214
Kirby, Eric 5:415-418
Kirby, Matthew E. 9:807-810
Kirchner, James W. 2:143-146
Kirchner, James W. 5:447-450
Kirchner, James W. 6:511-514
Kirchner, James W. 7:591-594
Kissling, Edi 9:847-850
Klaeschen, Dirk 5:379-382
Kleffmann, Stefan 8:679-682
Kling, H. J. 8:743-746
Kobashi, Takuro 11:983-986
Koc, Nalan 12:1107-1110
Kohn, Matthew J. 1:31-34
Kohn, Matthew J. 6:565-567
Kohn, Matthew J. 7:571-574
Kominz, Michelle A. 1:55-58
Konhauser, K. O. 9:823-826
Konrad, Sarah K. 11:971-974
Kopf, Achim 11:1031-1034
Kovas, Edward J. 7:583-586
Koyi, Hemin A. 5:387-390
Krishna, K. S. 8:715-718
Kromer, Bernd 12:1107-1110
Kroon, D. 6:483-486
Kudrass, H. R. 1:63-66
Kump, Lee R. 1:7-10
Kurras, G. J. 12:1139-1142
Kurz, Mark D. 12:1095-1098
Labeyrie, Laurent 12:1099-1102
Lageson, David R. 8:723-726
Lahren, Mary M. 4:307-310
Lam, Patrick S. 6:559-562
Lan, Ching-Ying 3:219-222
Larsen, Daniel 5:419-422
Larson, Roger L. 8:735-738
Last, W. M. 8:743-746
Law, R. 5:435-438
Law, Richard D. 12:1157-1158
Layer, Paul W. 2:167-170
Layer, Paul W. 5:395-398
Le Breton, Nicole 2:119-122
LeCheminant, Anthony N. 9:827-830
Lederer, Richard 7:615-618
Lee, Jeffrey 9:819-822
Lee, Tung-Yi 3:219-222
Leipe, Thomas 3:215-218
Leishman, M. R. 12:1103-1106
Levander, Alan 8:691-694
Levi, Shaul 10:887-890
Lewis, C. F. M. 8:743-746
Lewis, Jeffrey G. 7:627-630
Li, C. 7:663-664
Li Guoxiang 9:871-872
Li Huimin 3:219-222
Libby, John W. 3:283-286
Licciardi, Joseph M. 12:1095-1098
Liermann, Laura 6:535-538
Liesa, Carlos L. 3:231-234

Ligi, Marco 11:979-982
Lin, Aiming 10:951-954
Lin, Shoufa 9:767-770
Lin, Wei 2:119-122
Liu, Shaobin 4:371-373
Lo, Ching-Hua 3:219-222
Lockhart, W. L. 8:743-746
Longinelli, Antonio 10:931-934
Lonne, Ida 3:199-202
Looy, Cindy V. 4:351-354
Lorand, Jean-Pierre 2:155-158
Lotter, Andre F. 6:551-554
Lu, Zhong 6:495-498
Lu Yanchou 10:939-942
Luais, Beatrice 2:192-193
Ludvigson, Greg 4:363-366
Luguet, Ambre 2:155-158
Luz, Boaz 12:1099-1102
Lyle, Mitchell 12:1115-1118
Lynds, Ranie M. 11:971-974
Maas, Roland 3:243-246
Maas, Roland 7:607-610
Maasch, Kirk A. 7:603-606
Macaulay, Calum I. 10:915-918
MacAyeal, Douglas R. 11:1039-1042
MacGregor, K. R. 8:759-760
MacKenzie, J. A. 6:483-486
MacLeod, Kenneth G. 4:303-306
Maeda, J. 3:267-270
Maehara, K. 3:267-270
Magilligan, Francis J. 5:431-434
Magloughlin, Jerry F. 1:51-54
Maher, David J. 6:475-478
Mahoney, J. 2:147-150
Mahoney, J. 3:235-238
Mahoney, J. Brian 6:491-494
Malavieille, Jacques 5:379-382
Mangini, Augusto 7:623-626
Manning, Craig E. 7:663-664
Marchand, Ann M. E. 10:915-918
Marcus, W. Andrew 4:355-358
Marianelli, Paola 11:1043-1046
Marshak, Stephen 4:319-322
Marshall, Jeffrey 2:151-154
Marshallsea, Susan J. 10:939-942
Martin-Barajas, Arturo 5:459-462
Mascle, Georges 2:192-193
Massonne, Hans-Joachim 5:391-394
Mata, Maria Pilar 3:231-234
Mathur, Ryan 5:467-468
Matile, G. L. D. 8:743-746
Matisoff, Gerald 12:1131-1134
Matter, Albert 7:623-626
Mattioli, Glen 1:75-78
Maury, Rene C. 6:531-534
Mayer, Larry 6:495-498
Mazumder, Rajat 12:1159-1160
McBride, J. S. 5:467-468
McClay, Ken 9:839-842
McClintock, M. K. 10:935-938
McCoy, Annie M. 8:739-742
McInnes, B. I. A. 5:467-468
McIntosh, W. C. 3:275-278
McKenzie, Judith A. 9:799-802
McKinnon, William B. 2:103-106
McLaurin, Brett 2:187-188
McMartin, I. 8:743-746
McMillan, Margaret E. 11:971-974
McNaughton, Neal J. 10:963-966
McNeice, Gary W. 5:423-426
McRoberts, Christopher A. 4:359-362
Megahan, Walter F. 7:591-594
Melendez, Alfonso 3:231-234
Meltzer, Anne 7:651-654
Meltzer, Anne S. 8:691-694
Menzies, Martin A. 9:863-866
Mernagh, Terrence P. 11:1043-1046
Merritts, Dorothy 2:151-154
Mertes, Leal A.K. 7:659-662
Meschede, Martin 10:907-910
Messina, Paula 11:1055-1058
Metz, Jenny 12:1157-1158
Meyer, Grant A. 4:355-358
Miall, Andrew 2:187-188
Michaud, Francois 6:531-534
Mickelson, David M. 11:1039-1042
Migeon, S. 11:1011-1014
Milkov, Alexei V. 2:107-110
Miller, G. H. 4:343-346
Miller, Kenneth G. 1:55-58
Miller, Robert B. 12:1157-1158
Mitchell, T. E. 3:263-266
Miura, Yasunori 9:815-818
Mix, Alan 12:1115-1118
Moazzen, M. 4:311-314
Molina, Eustoquio 10:891-894
Molnar, Peter 12:1071-1074
Monchoux, P. 5:451-454
Montaggioni, L. F. 6:483-486
Montanez, Isabel P. 2:139-142
Montgomery, David R. 7:579-582
Moore, C. L. 3:235-238
Moore, J. Casey 2:183-186
Moore, J. Casey 12:1111-1114
Moore, L. 2:147-150
Moore, Thomas E. 6:491-494
Mora, Claudia I. 10:943-946
Mora, Claudia I. 12:1067-1070
Mora, German 6:519-522
Moran, K. 8:743-746
Moran-Zenteno, Dante 1:94-96
Morante, Ric 4:351-354
Morelli, David 4:347-350
Moreton, Steven G. 10:923-926
Morgans, Hugh E. G. 4:315-318
Morin, R. L. 12:1151-1154
Morse, John W. 1:79-82
Mortensen, James K. 8:731-734
Morwood, Mike 7:607-610
Mountjoy, Eric W. 12:1091-1094
Mugnier, Jean-Louis 11:1007-1010
Mulder, T. 11:1011-1014
Muller, R. 3:235-238
Muller, R. D. 2:147-150
Muller, R. Dietmar 3:203-206
Mullins, Henry T. 9:807-810
Mulugeta, Genene 10:895-898
Munizaga, Francisco 5:467-468
Murphy, Adam E. 5:469-471
Murphy, Donald C. 8:731-734
Murphy, J. M. 1:15-18
Muscheler, Raimund 12:1107-1110
Muto, Tetsuji 9:771-774
Najjar, Raymond G. 1:7-10
Nakano, Takanori 9:815-818
Neal, C. 2:147-150
Neal, C. 3:235-238
Neff, Ulrich 7:623-626
Newberry, Rainer 2:167-170
Nichols, Douglas J. 1:39-42
Nichols, K. M. 1:92-93
Nicolaysen, Kirsten 2:147-150
Nicolaysen, Kirsten 3:235-238
Niedermann, Samuel 7:619-622
Nielsen, E. 8:743-746
Nimmo, DelWayne R. 4:355-358
Nishikawa, Toru 1:87-89
Nordgulen, Oystein 4:374-376
Norman, Marc D. 3:243-246
Norton, Roy A. 7:643-646
Nye, Christopher J. 11:1063-1064
O'Brien, P. J. 5:435-438
O'Cofaigh, Colm 9:795-798
Ojha, Tank P. 1:31-34
Okaya, D. A. 1:15-18
Okaya, David 8:679-682
Oldow, J. S. 1:19-22
Orchard, Michael J. 11:1047-1050
Ortega-Rivera, Amabel 6:491-494
Oschmann, Wolfgang 3:271-274
Oschmann, Wolfgang 5:471
Oskarsson, Niels 6:487-490
Oskin, Michael 5:459-462
O'Sullivan, Paul B. 7:607-610
Ouimette, Andrew P. 11:1059-1062
Ouyang Ziyuan 6:563-565
Owen, L. A. 3:287
Owen, Lewis 9:819-822
Padden, Maureen 3:223-226
Padilla-Avila, Patricia 1:94-96
Palfy, Jozsef 11:1047-1050
Palin, J. Michael 5:383-386
Pan, Yucheng 3:227-230
Pankhurst, R. J. 8:703-706
Paola, Chris 3:259-262
Paquette, J. L. 5:451-454
Paradis, Suzanne 8:731-734
Parfenov, Leonid 2:167-170
Parizek, Byron R. 11:1039-1042
Parkes, R. John 2:123-126
Parry, William T. 4:331-334
Passchier, Cees W. 7:611-614
Paterne, Martine 12:1099-1102
Paterson, Scott R. 8:727-730
Patterson, William P. 9:807-810
Patzold, J. 3:239-242
Paul, Hilary A. 9:799-802
Paull, Charles K. 11:1019-1022
Pavlov, Alexander A. 11:1003-1006
Pazzaglia, Frank J. 6:547-550
Peacock, Simon M. 4:299-302
Pearson, Dean A. 1:39-42
Pearthree, Philip A. 11:1035-1038
Peckmann, Joern 5:471
Peckmann, Jorn 3:271-274
Pedone, Vicki A. 2:139-142
Pekar, Stephen F. 1:55-58
Peltz, Sergiu 2:171-174
Peltzer, Gilles 11:975-978
Penn, R. L. 9:843-846
Pennell, J. 7:587-590
Perez, Omar 1:75-78
Perez-Gussinye, M. 7:587-590
Perg, L. A. 10:879-882
Perkins, Michael E. 8:719-722
Perry, Frank V. 3:255-258
Peterhansel, Arndt 12:1079-1082
Petersen, Erich U. 4:331-334
Peterson, Tony D. 9:827-830
Petrone, Chiara M. 6:507-510
Peyve, Alexander A. 3:243-246
Phillips, Roger J. 5:407-410
Phoenix, V. R. 9:823-826
Pierce, Kenneth L. 12:1095-1098
Piercey, Stephen J. 8:731-734
Pike, Jennifer 10:923-926
Pin, C. 5:451-454
Playford, Phillip E. 12:1155-1156
Pokhilenko, N. P. 3:267-270
Polyak, Victor J. 7:643-646
Poore, R. Z. 1:71-74
Popov, Leonid E. 8:755-758
Poreda, Robert J. 11:1035-1038
Portaro, Rosana Asunta 11:979-982
Potter, Paul Edwin 11:999-1002
Poulsen, Chris 4:363-366
Pratt, Brian R. 9:763-766
Pratt, Brian R. 12:1079-1082
Pratt, Lisa M. 6:519-522
Prave, Anthony R. 12:1135-1138
Preto, Nereo 12:1123-1126
Pringle, M. 2:147-150
Pringle, Malcolm S. 3:235-238
Prokoph, Andreas 6:523-526
Prothero, Donald R. 7:595-598
Protti, Marino 2:151-154
Pudsey, Carol J. 9:787-790
Pueyo, J. J. 3:251-254
Puffer, J. H. 8:675-678
Quade, Jay 1:31-34
Quade, Jay 9:855-858
Quinn, Terrence M. 7:639-642
Rabba, Ibrahim 2:171-174
Rachold, Volker 6:523-526
Racki, Grzegorz 5:469-471
Rampino, Michael R. 1:11-14
Rapela, C. W. 8:703-706
Rasbury, E. Troy 2:139-142
Rasmussen, Birger 10:963-966
Rau, Ruey-Juin 7:575-578
Ravelo, A. Christina 3:207-210
Rawling, Geoffrey C. 1:43-46
Raza, Asaf 7:607-610
Rees-Jones, J. 12:1103-1106
Reid, Mark E. 9:779-782
Reischmann, Thomas 5:395-398
Reitner, Joachim 3:271-274
Reitner, Joachim 5:471
Reitner, Joachim 12:1119-1122
Reston, T. J. 7:587-590
Retallack, Gregory J. 3:247-250
Reusch, D. 2:147-150
Reusch, D. 3:235-238
Rhodes, E. J. 3:287
Rhodes, E. J. 12:1103-1106
Rice, A. H. N. 4:374-376
Richards, B. W. M. 3:287
Richardson, James B., III 7:603-606
Riciputi, Lee R. 6:479-482
Riciputi, Lee R. 12:1067-1070
Rickard, David 2:123-126
Ridgway, Kenneth D. 10:947-950
Riebe, Clifford S. 5:447-450
Riebe, Clifford S. 6:511-514
Riebe, Clifford S. 7:591-594
Riganti, Angela 3:283-286
Ring, Uwe 5:395-398
Ring, Uwe 7:611-614
Risberg, J. 8:743-746
Roberts, David 4:374-376
Rodrigues, C. G. 8:743-746
Roering, Joshua J. 2:143-146
Roest, Walter R. 3:203-206
Rogers, Karyne M. 4:315-318
Rogers, Raymond R. 6:565-567
Roggensack, Kurt 10:911-914
Rohl, U. 3:239-242
Roll, Stuart 7:615-618
Rollins, Harold B. 7:603-606
Romero-Pittman, Lidia 7:595-598
Ron, Hagai 10:887-890
Rong Jiayu 10:955-958
Roques, Delphine 3:211-214
Rosales-Dominguez, Carmen 1:94-96
Roselle, Gregory T. 12:1143-1146
Rosen, Paul 11:975-978
Rostad, Astrid 1:47-50
Rubatto, Daniela 1:3-6
Ruffman, Alan 10:967
Ruiz, Joaquin 5:467-468
Ruiz-Morales, Jose 1:94-96
Rusmore, M. E. 2:99-102
Rutter, Ernest H. 6:503-506
Ryberg, T. 1:15-18
Ryerson, F. J. 1:31-34
Ryerson, Frederick J. 7:571-574
Saavedra, J. 8:703-706
Saccocia, P. 2:147-150
Saccocia, P. 3:235-238
Saffer, Demian 2:183-186
Sageman, Bradley B. 5:469-471
Saito, Takahiro 1:87-89
Sak, Peter 2:151-154
Saleh, Jarir 1:75-78
Saltus, R. W. 12:1151-1154
Saltzman, Matthew R. 1:92-93

Saltzman, Matthew R. 8:671-674
Salvini, Francesco 9:839-842
Sanchez-Rios, Antonieta 1:94-96
Sandeman, Hamish 9:827-830
Sandweiss, Daniel H. 7:603-606
Sarker, Golam 7:651-654
Sarmiento, Gustavo 2:159-162
Sassen, Roger 2:107-110
Savoye, B. 11:1011-1014
Sbrana, Alessandro 11:1043-1046
Schaefer, Markus O. 9:835-838
Schaefer, Terry 1:39-42
Schaeffer, Philippe 9:799-802
Schaffer, Jeffrey P. 8:759-760
Schenk, Paul M. 2:103-106
Scherwath, Martin 8:679-682
Schidlowski, Manfred 5:471
Schidlowski, Manfred 9:871-872
Schilman, Bettina 12:1099-1102
Schlager, Wolfgang 10:883-886
Schlische, Roy W. 5:455-458
Schmitt, James G. 8:723-726
Schmitz, Birger 4:315-318
Schneider, R. 3:195-198
Schroder-Adams, C. J. 8:743-746
Schulz, Marjorie S. 8:699-702
Schutt, Derek L. 4:291-294
Schweickert, Richard A. 4:307-310
Scott, R. G. 8:747-750
Scrutton, R. A. 8:715-718
Searle, M. P. 2:192-193
Sears, James W. 4:327-330
Seeber, Leonardo 7:651-654
Seedorff, Eric 6:475-478
Seidov, Dan 4:295-298
Sella, Giovanni 1:75-78
Seyler, Monique 2:155-158
Seyler, Monique 11:979-982
Sharma, Pankaj 12:1095-1098
Shaver, Stephen A. 6:475-478
Shaw, Colin A. 8:739-742
Sheldon, Nathan D. 3:247-250
Shen, Yanan 5:471
Shen, Yanan 9:871-872
Shi, Guang R. 9:815-818
Shi Danian 7:575-578
Shock, Everett L. 10:875-878
Sibson, Richard H. 10:927-930
Sigurdsson, Haraldur 4:347-350
Silberling, N. J. 1:92-93
Simpson, Edward L. 12:1159-1160
Sisson, Thomas W. 9:779-782
Situmorang, Mangatas 7:607-610
Skinner, A. 6:483-486
Sklar, Leonard S. 2:143-146
Sklar, Leonard S. 12:1087-1090
Smalley, P. Craig 10:915-918
Smith, Douglas P. 6:491-494
Smith, Patrick E. 5:403-406
Smith, Roger M. H. 12:1147-1150
Sohl, Linda E. 5:443-446
Solli, Arne 4:374-376
Soria, Ana R. 3:231-234
Soto, Francisco M. 7:583-586
Southam, Gordon 1:47-50
Spencer, Joel 9:819-822
Sprinkle, James 2:131-134
Spurk, Marco 12:1107-1110
St. Marie, James 1:59-62
Stakes, Debra S. 12:1111-1114
Stamatakos, John A. 10:947-950
Stecher, Ole 9:859-862
Steel, Ron 2:187-188
Steel, Ron J. 9:771-774
Steig, E. J. 4:343-346
Steiner, Michael 12:1119-1122
Steinitz, Gideon 2:171-174
Stern, Tim 8:679-682
Stevens, Calvin H. 12:1157-1158
Stiles, Cynthia A. 10:943-946
Stinnesbeck, Wolfgang 1:94-96
Stock, Joann 5:459-462
Stockhert, Bernhard 5:391-394
Stockli, Daniel F. 6:559-562
Stoffer, Philip W. 11:1055-1058
Stone, Paul 12:1157-1158
Storti, Fabrizio 9:839-842
Strecker, Manfred R. 6:499-502
Strecker, Manfred R. 7:619-622
Stubenrauch, A. 7:587-590
Suminto 7:607-610
Sun Zhiming 10:951-954
Sushchevskaya, N. M. 3:243-246
Sutherland, Rupert 3:279-282
Sweet, Stephen T. 2:107-110
Szatmari, Peter 5:403-406
Taberner, C. 3:251-254
Tanaka, Kenneth L. 5:427-430
Tanton, Linda T. Elkins 7:631-634
Tappa, Eric J. 12:1075-1078
Tarawneh, Khalid 2:171-174
Tatsumi, Yoshiyuki 4:323-326
Tazaki, Kazue 9:815-818
Teagle, D. 2:147-150
Teagle, D. 3:235-238
Telka, A. M. 8:743-746
Terry, Dennis O., Jr. 11:1055-1058
Thirlwall, Matthew F. 9:863-866
Thomas, Ellen 10:891-894
Thompson, R. 6:483-486
Thorleifson, L. H. 8:743-746
Thunell, Robert C. 12:1075-1078
Tiedemann, Ralf 3:207-210
Tinner, Willy 6:551-554
Tobin, Harold 10:907-910
Todd, B. J. 8:743-746
Tohidi, Bahman 9:867-870
Tolmacheva, Tatiana J. 8:755-758
Tolstoy, M. 12:1139-1142
Toplis, Michael J. 2:155-158
Townend, John 2:189-190
Trauth, Martin H. 6:499-502
Trepmann, Claudia 5:391-394
Trop, Jeffrey M. 10:947-950
Trunilina, Vera 2:167-170
Truyols-Massoni, M. 7:583-586
Turner, Simon 4:339-342
Twitchett, Richard J. 4:351-354
Ueshima, Masato 9:815-818
Valentine, Greg A. 3:255-258
Valentine, Kenneth E. 11:971-974
Vallance, James W. 2:115-118
Van Arsdale, Roy B. 5:419-422
van der Pluijm, Ben A. 1:51-54
van der Pluijm, Ben A. 11:991-994
Van der Voo, Rob 11:991-994
van Keken, Peter E. 12:1083-1086
van Milligen, B. P. 10:919-922
van Staal, Cees R. 9:811-814
Vance, Joseph A. 1:35-38
Vance, R. E. 8:743-746
Vannucchi, Paola 10:907-910
Varekamp, Johan C. 11:1059-1062
Vasconcelos, C. 6:483-486
Vasconcelos, Paulo 7:635-638
Veblen, D. R. 9:843-846
Veski, Siim 12:1107-1110
Veto, Istvan 11:1047-1050
Villa, Igor M. 2:192-193
Villeneuve, Mike 6:523-526
Vines, John A. 12:1157-1158
Visscher, Henk 4:351-354
Vivit, Davisson V. 8:699-702
Waddington, E. D. 8:759-760
Wahnert, V. 2:147-150
Wahnert, V. 3:235-238
Waldron, John W. F. 9:811-814
Walker, I. 7:587-590
Wallace, Malcolm W. 12:1155-1156
Wallace, P. 2:147-150
Wallace, P. 3:235-238
Wang, Chi-yuen 9:831-834
Wang, Pei-Ling 3:219-222
Wang Chengyuan 10:955-958
Wang Ping 10:955-958
Wang Shijie 6:563-565
Wang Xiaofeng 11:1051-1054
Ward, Peter D. 12:1147-1150
Warrick, Jonathan A. 7:659-662
Washburn, Zachary 11:1051-1054
Watanabe, T. 3:267-270
Watanabe, Yoshio 11:995-998
Waters, Michael R. 5:399-402
Webb, Robert H. 11:1035-1038
Webb, Thompson, III 7:615-618
Weber, John C. 1:75-78
Webster, J. 6:483-486
Wefer, G. 3:195-198
Weil, Arlo B. 11:991-994
Weinberger, Ram 2:171-174
Weis, Dominique 2:147-150
Weis, Dominique 3:235-238
Weissert, Helmut 3:223-226
Wengren, Micah 7:615-618
Westrop, Stephen R. 10:903-906
Whipkey, Charles E. 6:563-565
Whipple, Kelin 5:415-418
White, Arthur F. 8:699-702
White, J. C. 11:1027-1030
White, J. D. L. 10:935-938
White, Tim 4:363-366
Whiting, Peter J. 12:1131-1134
Widman, Yvette A. 11:971-974
Wignall, Paul 5:469-471
Wignall, Paul B. 4:351-354
Wilkinson, Paul 1:83-86
Willett, Sean D. 7:579-582
Williams, Helen 4:339-342
Williams, Ian S. 5:383-386
Williams, Michael L. 8:739-742
Willis, Andrew 2:187-188
Wilson, C. J. L. 5:463-466
Wilson, John L. 1:43-46
Wilson, P. A. 6:483-486
Wiltschko, David V. 1:79-82
Winick, J. A. 3:275-278
Wise, S. 2:147-150
Wise, S. W., Jr. 3:235-238
WoldeGabriel, Giday 3:255-258
Wood, Rachel 12:1155-1156
Worner, Gerhard 2:127-130
Worthington, Stephen R. H.4:335-338
Wortmann, Ulrich G. 7:647-650
Wu, Francis T. 7:575-578
Wyche, Stephen 3:283-286
Wyrwoll, Karl-Heinz 10:939-942
Xia, B. D. 7:663-664
Xie Guanghong 9:863-866
Xu, H. 9:843-846
Xu Hankui 1:27-30
Xu Yigang 9:863-866
Yancey, Thomas E. 11:983-986
Yang Jinhui 8:711-714
Yang Tianshui 10:951-954
Yang Zhenyu 10:951-954
Ye, H. F. 7:663-664
Yin, An 7:663-664
Yoerger, Dana R. 10:959-962
York, Derek 5:403-406
Yoshida, Shuji 2:187-188
Yu, Shui-Beih 9:831-834
Zahn, Rainer 3:207-210
Zaprowski, Brent J. 6:547-550
Zattin, Massimiliano 1:35-38
Zegers, Tanja E. 12:1083-1086
Zentilli, Marcos 5:467-468
Zhang, J. 8:667-670
Zhang, K. J. 1:90-91
Zhang Junming 9:871-872
Zhang Yueqiao 11:1051-1054
Zhao, Jian-xin 1:27-30
Zhao, X. 2:147-150
Zhao, X. 3:235-238
Zhou Xinhua 8:711-714
Zhu, C. 9:843-846
Zhu Maoyan 9:871-872
Zoback, Mark D. 2:175-178
Zoback, Mark D. 2:189-190
Zotov, N. 5:435-438